TouchTunes

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MX-1

Ovation II

Allegro

Genesis

Ovation

Rhapsody

OS2 Upgrade Kit Installation Guide

Disclaimer

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OS2 UPGRADE KIT INSTALLATION GUIDE FOR TOUCHTUNES JUKEBOXES

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USA

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1 Introduction

This section introduces the OS2 Upgrade Kits for TouchTunes jukeboxes, provides important safety information, and describes how to get technical support.

Topics

1.1 About This Guide
1.2 Disclaimer
1.3 Important Safety Information
1.4 Contacting TouchTunes Technical Support

1.1 About This Guide

This Guide is intended for Operators of TouchTunes digital jukeboxes and their technicians, as well as TouchTunes technical support and field service personnel. It explains how to upgrade your TouchTunes jukebox to OpenStage 2 (OS2) using the following TouchTunes OS2 Upgrade Kits:

- “Universal” Computer and I/O Board Upgrade Kit
- Power Supply Unit Upgrade Kit

NOTE	The TouchTunes Power Supply Unit Upgrade Kit is **ONLY** required for jukeboxes built with an MJS computer. This includes those currently running an MJS, as well as those which have previously been ungraded using a “JCB**+** for MJS Upgrade”. Jukeboxes which have only ever had a JCB or JCB**+** for JCB computer **DO NOT REQUIRE** these additional parts (for example, an MX-1 jukebox).

The OS2 Upgrade Kits can be used on the following jukebox models:

- MX-1
- Allegro
- Ovation and Ovation II
- Rhapsody
- Genesis

NOTE	If you are upgrading a Genesis or Rhapsody jukebox, it must be equipped with a conversion bracket (P/N 600079-001). **If not equipped with this component, you will be unable to upgrade to OS2.**

1.2 Disclaimer

TouchTunes is not responsible for any damage resulting from the improper installation or connection of jukebox components or any other external equipment to your jukebox. TouchTunes is not responsible for any damage caused during shipment (except the shipment to the original purchaser) or any damage caused by:

- impacts, fluids, fire, flood, wind, earthquake, lightning, or similar disaster
- unauthorized modifications, non-TouchTunes attachments or peripherals, improper use, environment, installation, or electrical supply
- improper maintenance
- any other misuse, abuse, or mishandling

1.3 Important Safety Information

Make sure to familiarize yourself with the following safety information before proceeding with product installation.

- READ THESE INSTRUCTIONS.
- KEEP THESE INSTRUCTIONS.
- HEED ALL WARNINGS.
- FOLLOW ALL INSTRUCTIONS.

CAUTION: Do not install this equipment near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

CAUTION: Do not defeat the safety purposes of the polarized or grounding-type plug. A polarized plug has two blades with one blade wider than the other. A grounding-type plug has two blades and a third grounding prong. The wider blade or the third grounding prong are provided for your safety. If the provided plug does not fit in your outlet, consult an electrician for replacement of the obsolete outlet.

To prevent risk of fire or electric shock, avoid overloading wall outlets, extension cords, integral convenience receptacles.

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

CAUTION: See the product enclosure for safety related markings and refer to the product's Operator's Manual on the TouchTunes Tempo site for additional safety information.

Do not use this apparatus near water of moisture - Do not use this product near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or anywhere else that water or moisture are present.

Clean only with a dry cloth. Unplug this product from the wall outlet before cleaning.

Do not block any ventilation opening. Install in accordance with the manufacturer's instructions - To ensure reliable operation of the product and to protect it from overheating, put the product in a position and location that will not interfere with its proper ventilation.

Do not let objects or liquids enter the product as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

Use only attachments and accessories specified by the manufacturer.

Refer all services to qualified service personnel. Service is required when the apparatus has been damaged in any way such as power-supply cord or plug is damaged; liquid has been spilled or objects have fallen into the apparatus; the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING: This symbol alerts you to the presence of “dangerous voltage” within the product enclosure that may be of sufficient magnitude to constitute a risk of electrical shock. Do not remove the cover or back. There are no user-serviceable parts inside. Servicing must be performed by qualified personnel only.

1.4 Contacting TouchTunes Technical Support

If you need help or have questions, call the TouchTunes Tech Line at 888-338-5853.

To help TouchTunes assist you more effectively with problem reports, the following information may be required when contacting Technical Support:

- Jukebox model and ID
- Operator ID
- The serial number of any component you believe to be problematic
- The date/time of the problem
- Actions performed immediately before the problem occurred
- Any additional comments relevant to the problem

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2 Prepare to Install OS2 Upgrade Kits

This section provides the prerequisite information and steps that need to be performed in preparation for installing an OS2 Upgrade Kit.

Topics

2.1 Important Prerequisites
- 2.1.1 Jukebox Condition
- 2.1.2 Broadband Internet Connection
- 2.1.3 Record Current Jukebox Settings

2.2 Required Tools and Equipment

2.3 Optional Equipment

2.4 Estimated Time to Complete the Installation

2.5 Unpacking and Checking OS2 Upgrade Kit Components
- 2.5.1 Universal Computer and I/O Board Upgrade Kit Components
- 2.5.2 Power Supply Unit Upgrade Kit Components

2.6 Workflow

2.1 Important Prerequisites

2.1.1 Jukebox Condition

The successful installation of your OS2 Upgrade Kit(s) requires that your current hardware be in good working condition.

Before proceeding with installation of the OS2 Upgrade Kit(s), it is imperative that you verify that all currently installed electronic components are fully functional. You must also inspect the cabinet or enclosure to ensure that it has not sustained damage that would inhibit or prevent the installation of any equipment provided with the OS2 Upgrade Kit - either internally installed functional components, or externally applied aesthetic enhancements.

IMPORTANT: Installing a TouchTunes OS2 Upgrade Kit does not fix a broken or deactivated jukebox.

2.1.2 Broadband Internet Connection

IMPORTANT: The OS2 Upgrade Kit installation does not support dial-up Internet connections.

OS2 Upgrade Kit installation requires a broadband Internet connection. The broadband connection allows:

- Songs selected by patrons that are not on the hard drive are downloaded immediately, ahead of all other pending downloads
- Support for the TouchTunes Mobile application
- Change jukebox settings remotely, in real-time, via the TouchTunes Tempo site (https://tempo.touchtunes.com)

For all connections, ensure you use high-quality cable and make the cable run as short as possible to minimize potential problems due to line noise and interference.

NOTE	The broadband modem and router can be included in a single device, depending on the equipment used by the ISP and the networking setup for the location. Both the broadband modem and the router must be installed and configured properly for Internet access before you can set up a broadband connection for the jukebox.

Wireless Broadband Connection

The TouchTunes Wireless Broadband hardware kit (P/N 600263-001) contains everything you will need to provide your jukebox with a wireless broadband Internet connection. This kit comes with its own installation guide (*Wireless Broadband Installation Guide (AT&T Beam)* (P/N 901024-001) that will guide US operators through the proper steps for setting up a wireless broadband connection. This guide can also be found on the TouchTunes Product & Warranty site at http://productwarranty.touchtunes.com in the Product & Technical Documentation section.

For Canadian operators, use the hardware kit P/N 600187-001 and the *Wireless Broadband Installation Guide (Rogers)* P/N 900764-001.

2.1.3 Record Current Jukebox Settings

When upgrading your jukebox to OS2, your existing settings are **not** preserved. It is strongly recommended to record all settings beforehand so that you can set them to these values after the upgrade which includes the hard drive replacement.

2.2 Required Tools and Equipment

Accomplishing the procedures described in this section requires the use of the following tools and equipment:

- Screwdrivers (slotted and cross-head)
- Nut driver or hex-head screwdriver, assorted sizes
- Cable ties for dressing cables
- Wire cutters

2.3 Optional Equipment

The following cable must be acquired separately for JCB replacements in an Allegro or Ovation I jukebox (previously updated to JCB) if operators want to continue using the buttons on the existing control board:

- RJ11 6 pin cable

See the note on page 45 for details.

2.4 Estimated Time to Complete the Installation

The degree of complexity and time to complete the installation may vary slightly depending upon the installer's experience and comfort level in working with electronic equipment and hardware.

A typical installation can usually be completed in approximately 45 minutes.

2.5 Unpacking and Checking OS2 Upgrade Kit Components

The TouchTunes Universal Computer and I/O Board Upgrade Kit for jukeboxes may be delivered in several boxes and includes the following:

- Metal riser bracket pieces, mounting bracket for the computer and I/O Board, cables, screws, and this manual
- Computer (with green label)
- I/O Board

NOTE 1	The new computer (P/N 301090-001) is marked with a green label to indicate it is "universal". If the P/N and label of the computer you receive does not match, then you have not received the correct model.
NOTE 2	The hard drive for the new computer is shipped separately. Make sure you have received the hard drive before proceeding with installation. If the hard drive has not yet arrived at your location, contact TouchTunes.

NOTE 3	The TouchTunes Power Supply Unit Upgrade Kit is **ONLY** required for jukeboxes equipped with an MJS computer. This includes those currently running an MJS, as well as those which have previously been upgraded using a “JCB**+** for MJS Upgrade”. Jukeboxes which have only ever had a JCB or JCB**+** for JCB computer **DO NOT REQUIRE** these additional parts (for example, an MX-1 jukebox).

The TouchTunes Power Supply Unit Upgrade Kit for MJS and JCB**+** for MJS-equipped jukeboxes is delivered in 2 boxes:

- Mounting bracket, cables, and screws
- Power Supply Unit

Before you install an OS2 Upgrade Kit, you must ensure that you have received all hardware components and that both hardware components and the items in the OS2 Upgrade Kit(s) are in good condition.

2.5.1 Universal Computer and I/O Board Upgrade Kit Components

This portion of the OS2 Upgrade Kit (P/N 600303-001) should contain the following components:

Component Quantity	Component	Description	TouchTunes P/N
2	MET, BRACKET, SUPPORT	Metal riser bracket support parts	401690-001
1	MET, SUPPORT, MIDDLE BRACKET	Middle part for metal riser bracket	401691-001
2	MET, SUPPORT STAND, BRACKET	Side support parts for metal riser bracket	401692-001
1	ASY, PC IO BRACKET	Mounting bracket for the Computer and I/O Board	401693-001
1	MAN, OS2 UPGRADE KIT	This document	901107-001
18	FAS, SCR, X-PAN, SEMS, M4X8, ZN	Zinc screws (size 4 x 8)	200244-008
1	HAR, I/O TO BACKPLANE, 9"	Cable to connect the I/O Board to the backplane	301094-009
1	HAR, DVI-VGA ADAPTER, 36"	DVI to VGA video cable	301096-036
1	ACC, ADAPTER, VGA TO VGA, F-F	Female/Female video adapter (placed between jukebox monitor video cable and the above video cable)	401704-001
5	HAR, CAT5, RJ45-RJ45, 18"	Network cable, RJ45, 18" (for Genesis and Rhapsody)	300142-018
1	HAR, RJ11, 6 COND CROSS, 12"	RJ11 cable (for Rhapsody only)	300379-012
1	HAR, CAT5, RJ45-RJ45, 24"	Network cable, RJ45, 24" (for JCB computer on MX-1 AMP channel 1)	300142-024

Component Quantity	Component	Description	TouchTunes P/N
1	HAR, JCB PSU, EXTENSION, 12"	Power extension cable, 12" (for JCB computer on MX-1)	300288-012

2.5.2 Power Supply Unit Upgrade Kit Components

This portion of the OS2 Upgrade Kit is **only** applicable to TouchTunes jukeboxes equipped with an MJS computer or a JCB**+** for MJS computer. It is **not** needed when replacing a JCB or JCB**+** for JCB computer. The OS2 Upgrade Kit (P/N 600304-001) should contain the following components:

Component Quantity	Component	Description	TouchTunes P/N
1	ASY, PSU BRACKET	Mounting bracket for the Power Supply Unit	401694-001
4	FAS, SCR, X-PAN, SEMS, M4X8, ZN	Zinc screws (size 4 x 8)	200244-008
1	HAR, PSU, EXTENSION CABLE, 14"	Extension cable 14" to connect power from the PSU to the assembled Computer-I/O Board mounting bracket	301095-014
1	HAR, POWER CORD A/C, ANGLED, 36"	A/C power cord 36" (for Ovation I and Ovation II)	301099-036

IMPORTANT: Do not attempt installation if any jukebox hardware component or item in the OS2 Upgrade Kit(s) is damaged. Contact TouchTunes to report the damage immediately and request replacement parts.

2.6 Workflow

The procedures described here represent a logical sequence of events and best practices for installing your OS2 Upgrade Kit within the least time and with minimum difficulty.

In general, the basic procedures are:

1. Disconnection and removal of old computer.

   The existing computer must be removed from the jukebox in order to accommodate the OS2 Upgrade Kit.

2. Installation of new components.

   These procedures involve assembly, installation, and connection of the new components provided in the OS2 Upgrade Kit into the various jukeboxes.

3. Activation of the upgraded jukebox.

   This procedure allows you to verify the success of your installation. See section 8 Activate the Jukebox.

Procedures for each jukebox that are in scope for upgrade are described in detail in the following sections:

- 3 Install OS2 Upgrade Kit in MX-1
- 4 Install OS2 Upgrade Kits in Allegro
- 5 Install OS2 Upgrade Kit in Genesis or Rhapsody
- 6 Install OS2 Upgrade Kits in Ovation
- 7 Install OS2 Upgrade Kit in Ovation II

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3 Install OS2 Upgrade Kit in MX-1

This section provides the procedures that must be performed in order to complete the installation of the OS2 Upgrade Kit in an MX-1 jukebox.

Topics

3.1 Removing JCB or JCB+ for JCB Computer

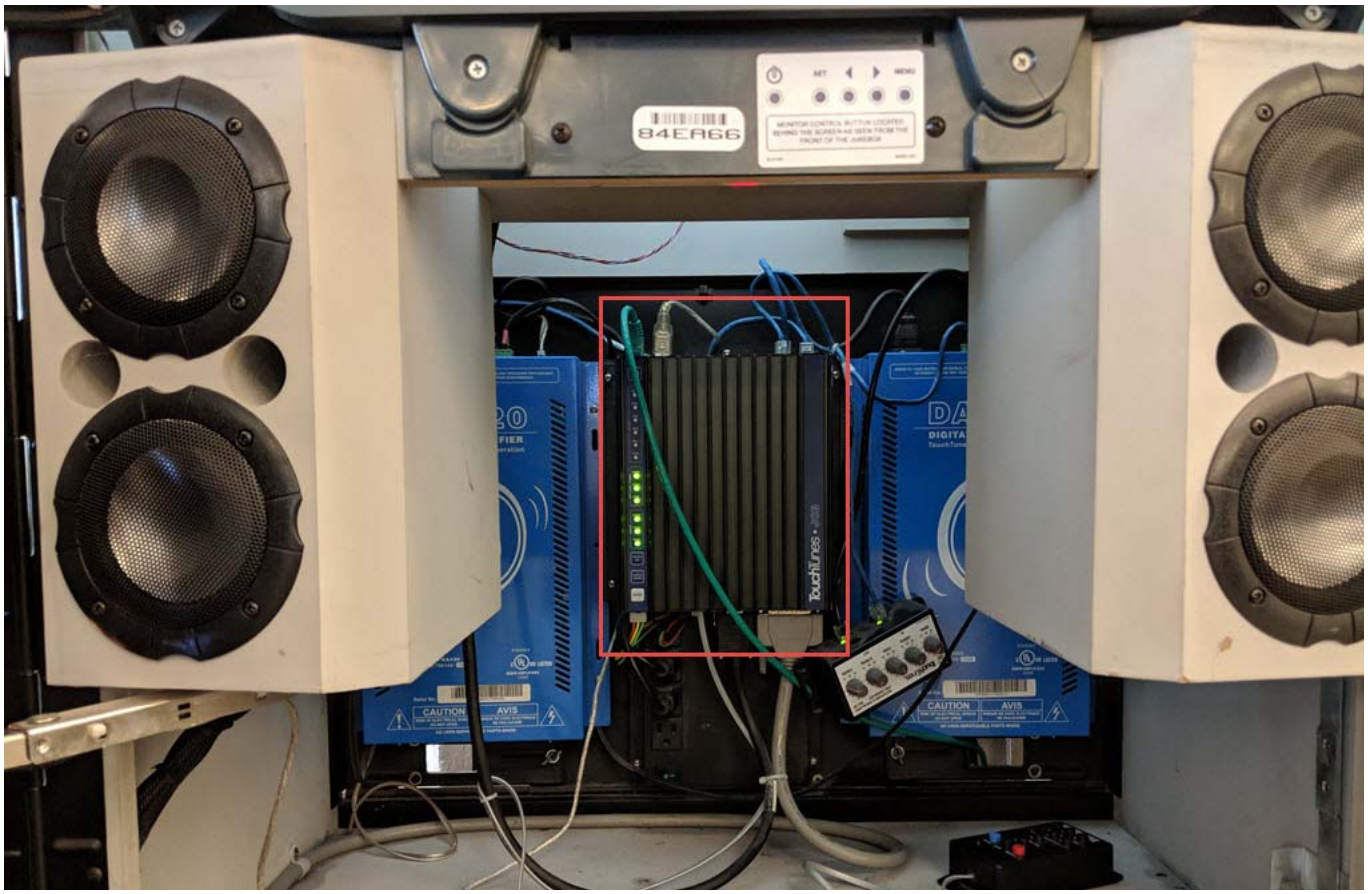
3.2 Installing New Components

- 3.2.1 Assembling the Universal Computer and I/O Board Upgrade Kit
- 3.2.2 Installing the Universal Computer and I/O Board Upgrade Kit
- 3.2.3 Installing the New Hard Drive

3.1 Removing JCB or JCB+ for JCB Computer

To prepare your jukebox for installation of the OS2 Upgrade Kit, you must disconnect and remove the existing computer (JCB or JCB**+** where applicable).

The following shows the location of the computer in an MX-1 jukebox.



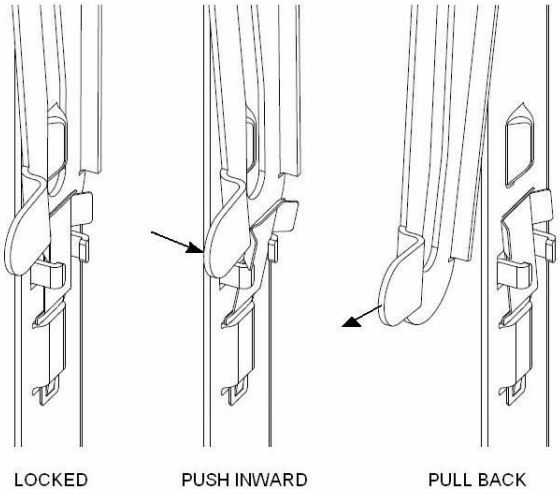
Location of computer in MX-1 jukebox

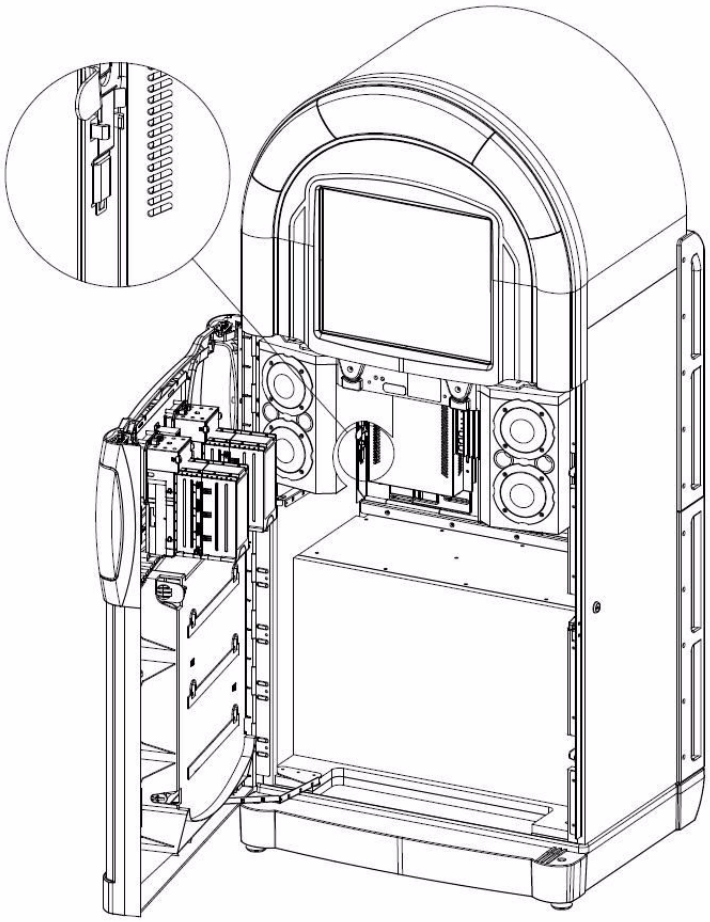
This procedure applies to a jukebox equipped with a JCB or JCB**+** for JCB computer.

WARNING: To prevent risk of electrical shock when performing the following procedure or any other maintenance on your jukebox, the jukebox must be powered off and its electrical power disconnected.

To remove the computer:

1. Power off the jukebox.
2. Disconnect all electrical power to the jukebox.
3. Unlock and open the jukebox front door.
4. Disconnect the AC power cord from the power strip and from the AC inlet on the bottom panel of the computer.
5. Locate the two locking slide rails on either side of the service tray at the rear of the cabinet's interior.





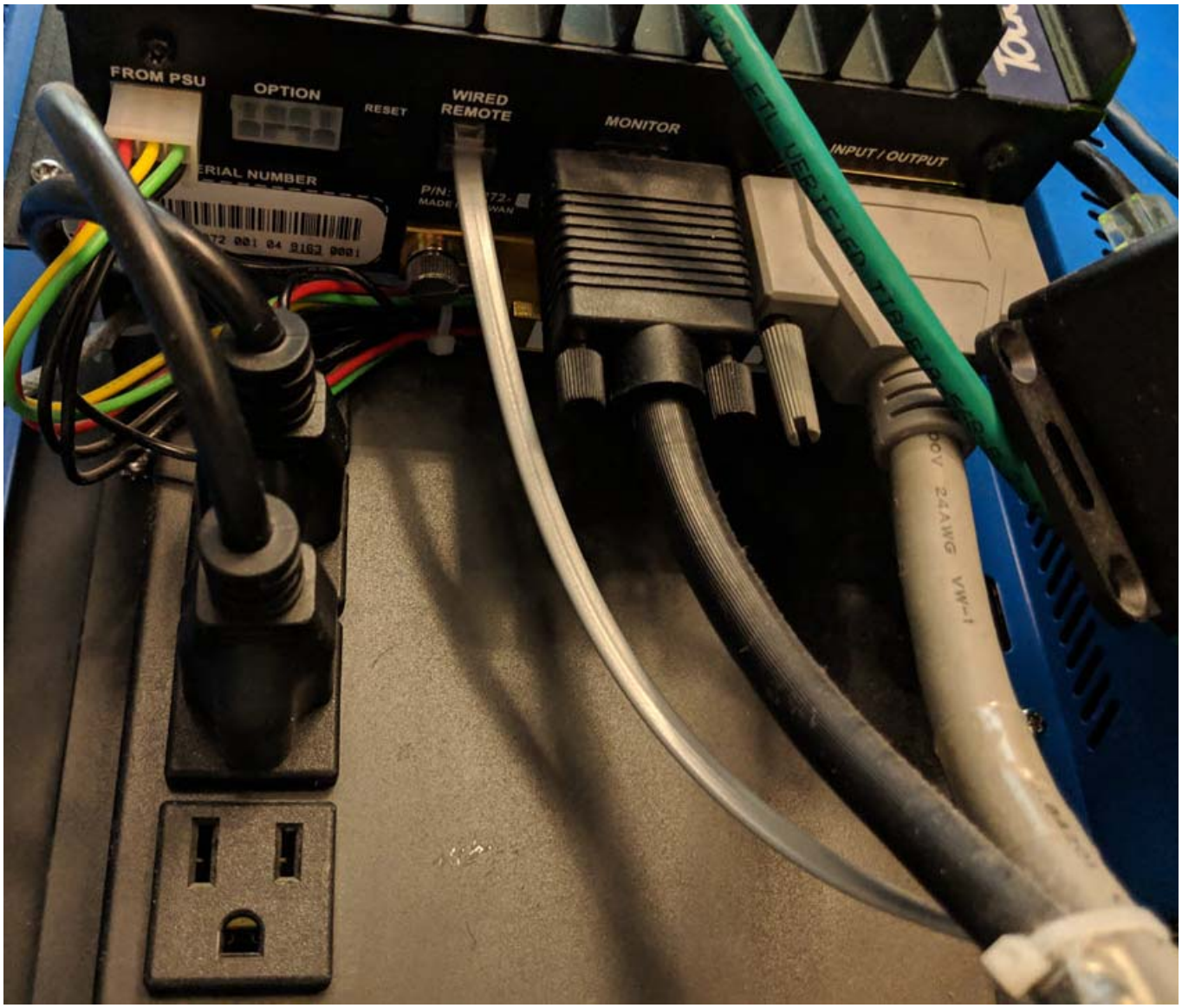
Unlocking MX-1 Service Tray

- Disengage the rails from the locking tabs by pressing them inward toward the center of the enclosure, and then pulling back as far as they can go.
- Gently push the service tray outward, letting it slide along the rails.

NOTE	Prior to performing the next step, it is recommended to use cable flags (or just pieces of tape) to tag each cable that connects to the jukebox computer, indicating which socket it goes into on the computer. At a minimum, you should label all the Ethernet cables (network, Zones 1 to 3, MIC, AUX IN, and DMX) as these are very easy to mix up.

6. Disconnect all the cables that go into the computer.

Connections to remove from top of the JCB (MX-1 jukebox accessed from its rear service tray)



Connections to remove from bottom of the JCB (MX-1 jukebox accessed from interior of jukebox)

7. Find the four screws that hold the computer in place and remove each one (hold the computer in place while removing the last two screws to prevent it from falling).

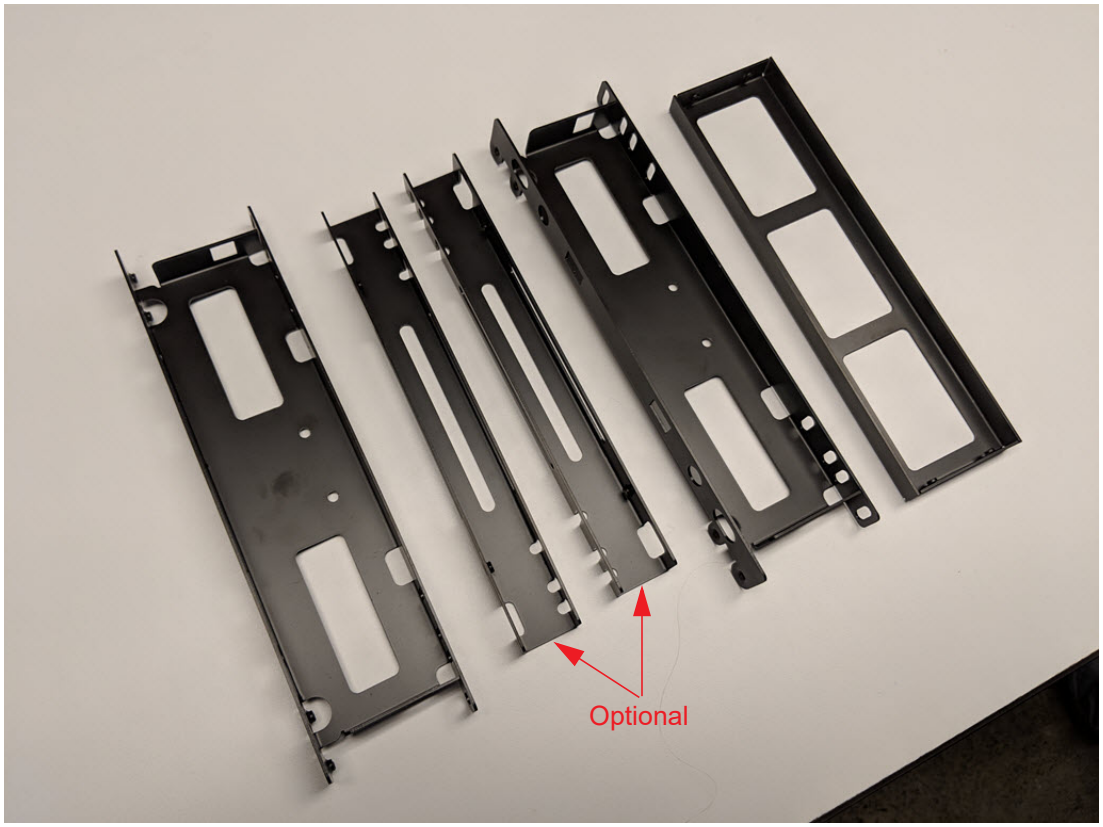
Remove the screws from the JCB

8. Remove the computer and set it aside.

3.2 Installing New Components

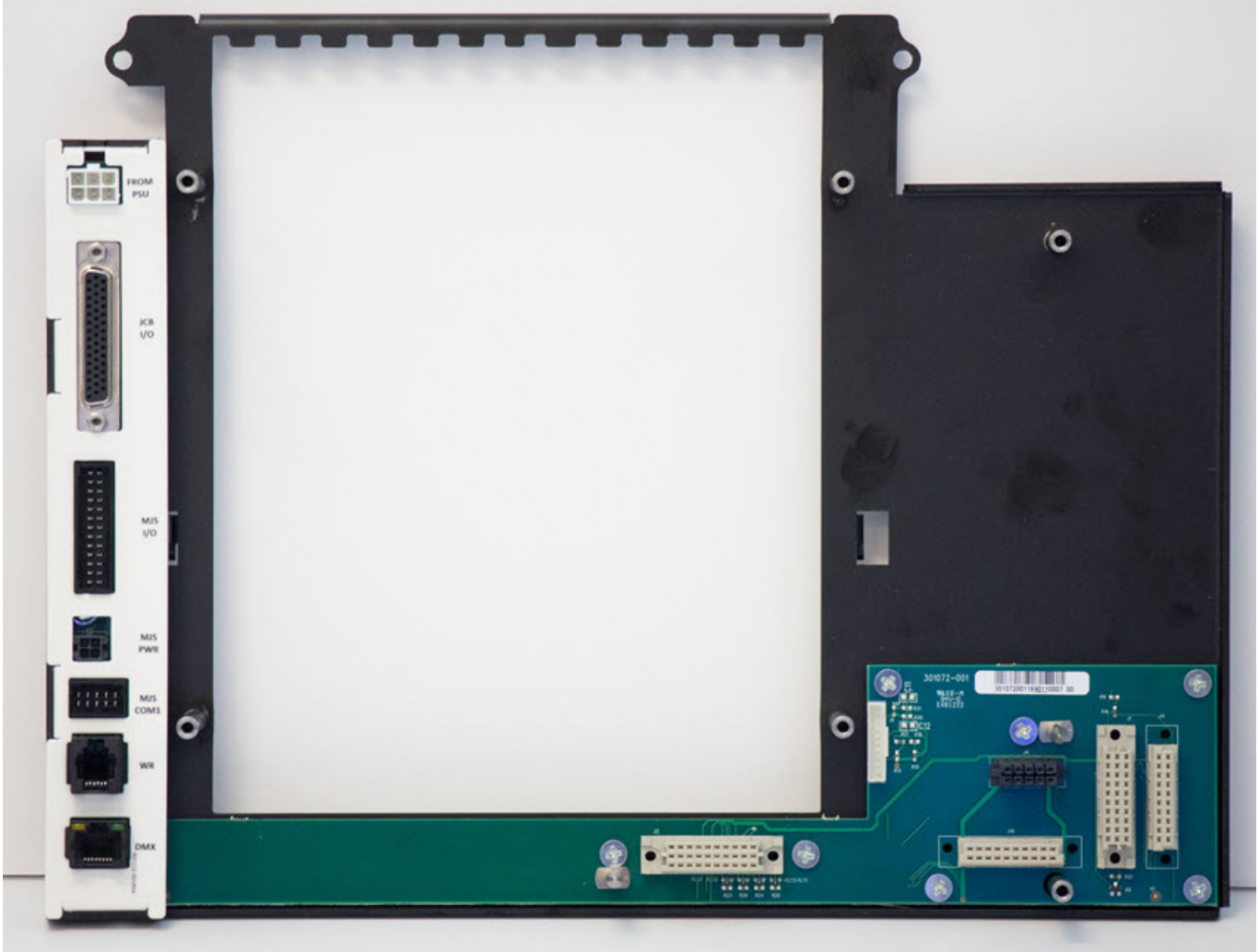
3.2.1 Assembling the Universal Computer and I/O Board Upgrade Kit

1. Unpack the Upgrade Kit components.



Metal riser bracket pieces

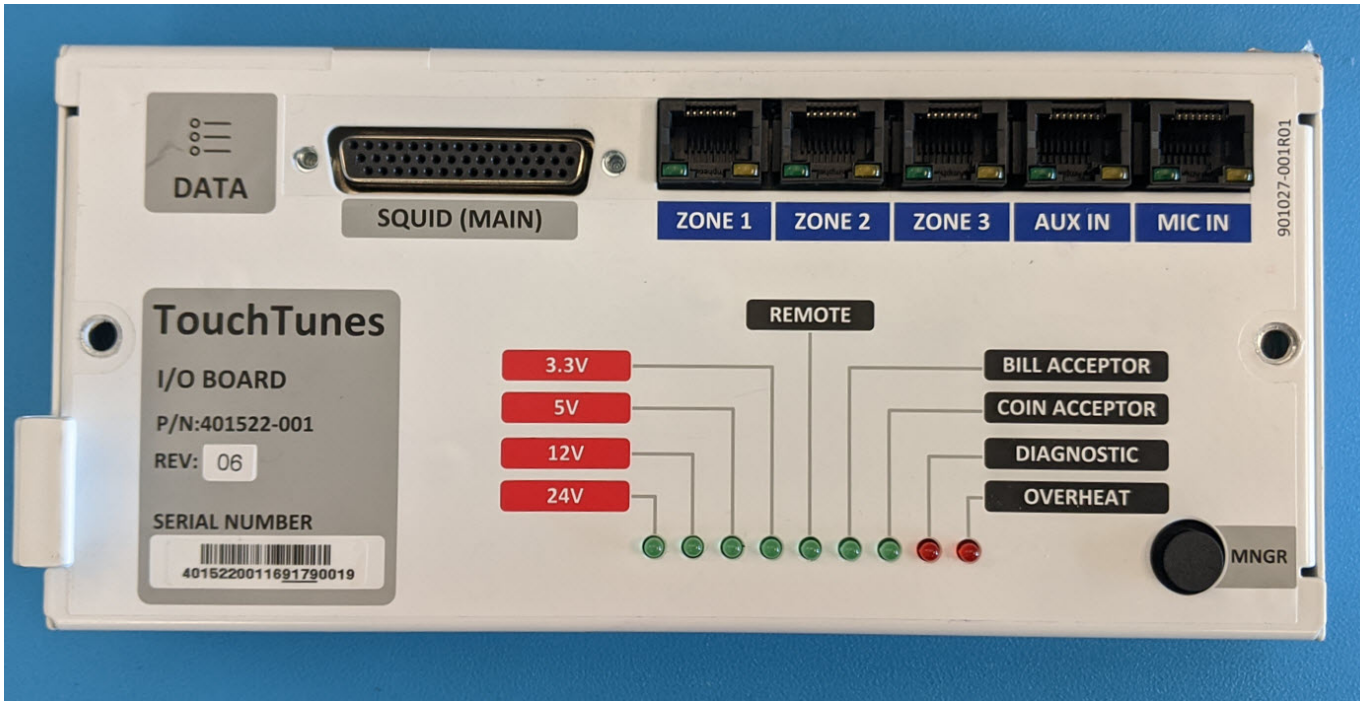
NOTE	The two optional pieces can be used when additional depth of the assembled bracket is required in the jukebox. These pieces are to be used in Ovation I, Ovation II, Genesis, and Rhapsody.



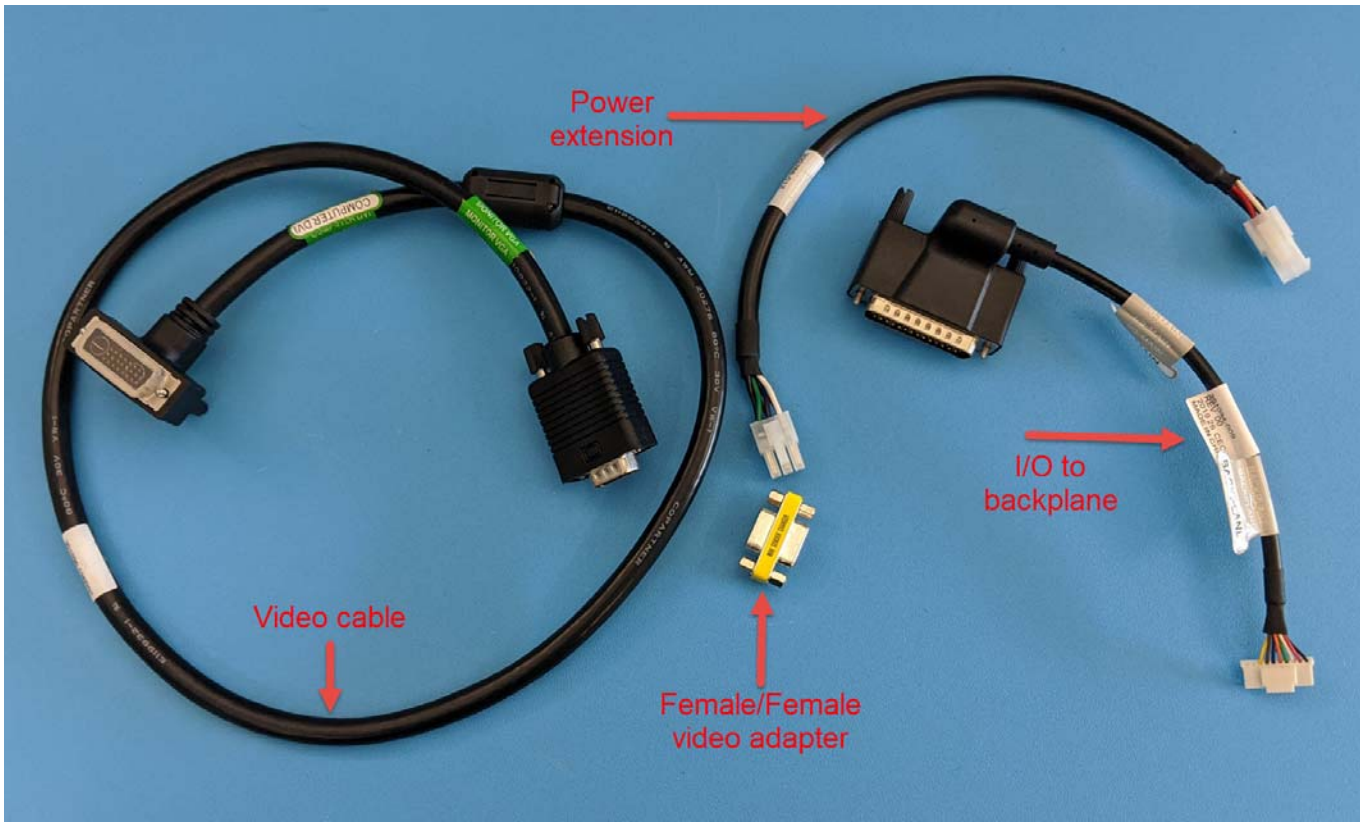
Mounting bracket for Computer and I/O Board

Universal computer

IMPORTANT NOTE	The new computer (P/N 301090-001) is marked with a green label to indicate it is “universal”. If the P/N and label of the computer you receive does not match with that shown in the previous figure, then you have not received the correct model.

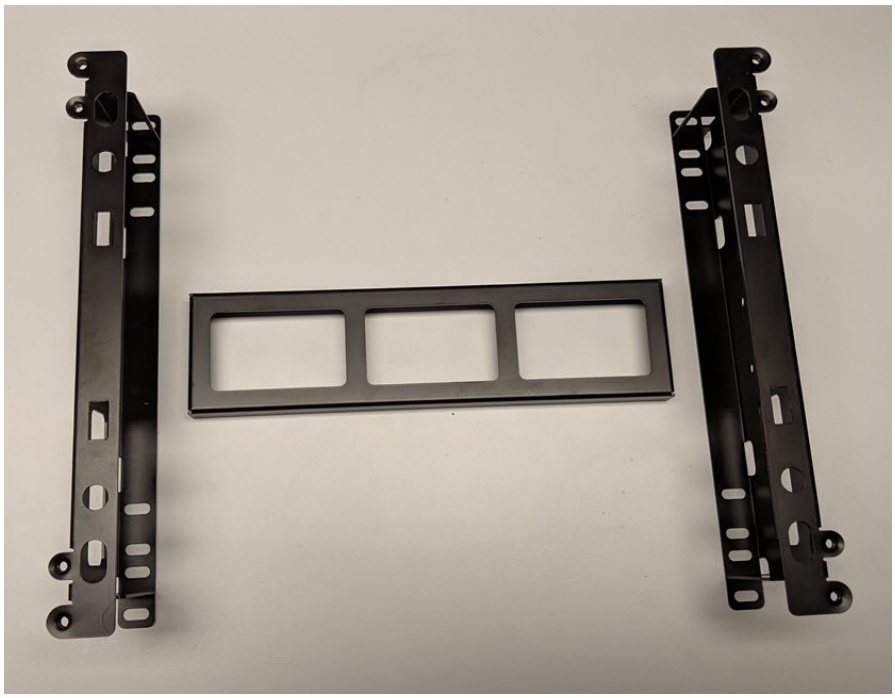


I/O Board



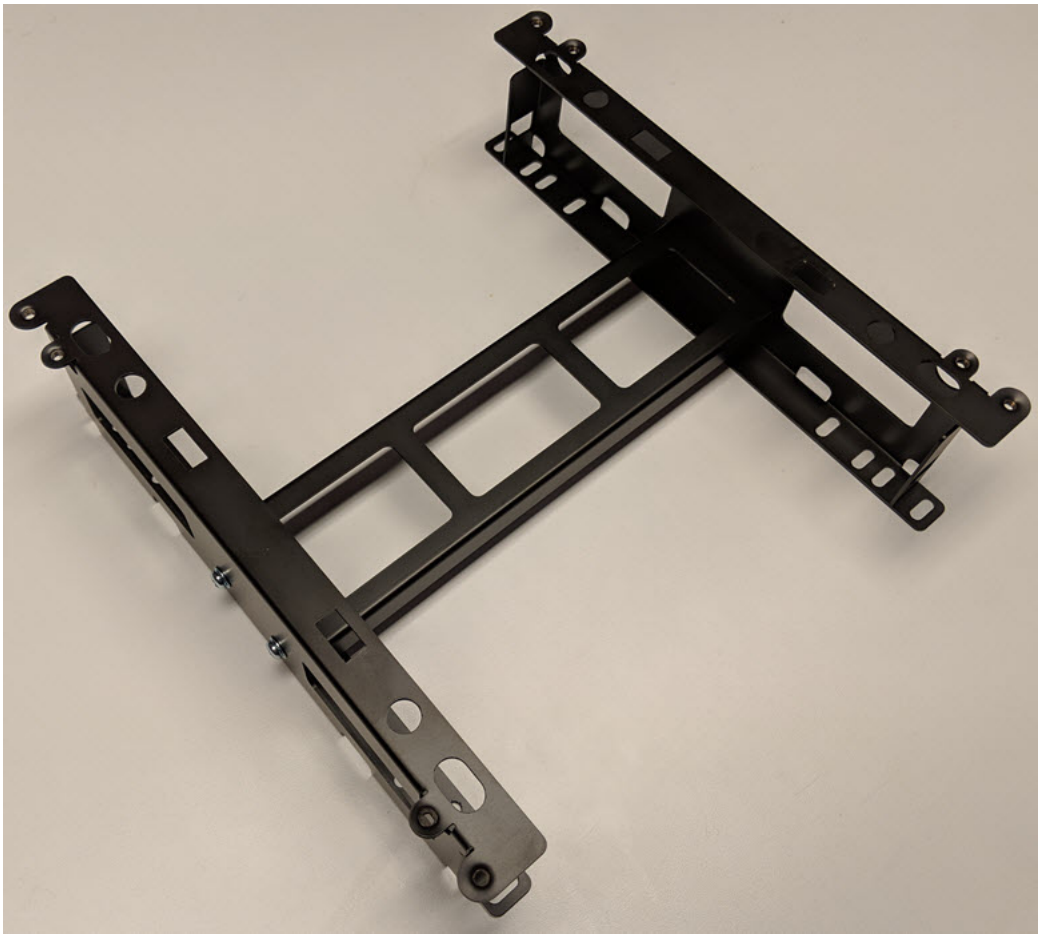
Upgrade Kit cables (RJ cables not shown)

2. Place the riser bracket pieces as follows.



Position metal riser bracket pieces

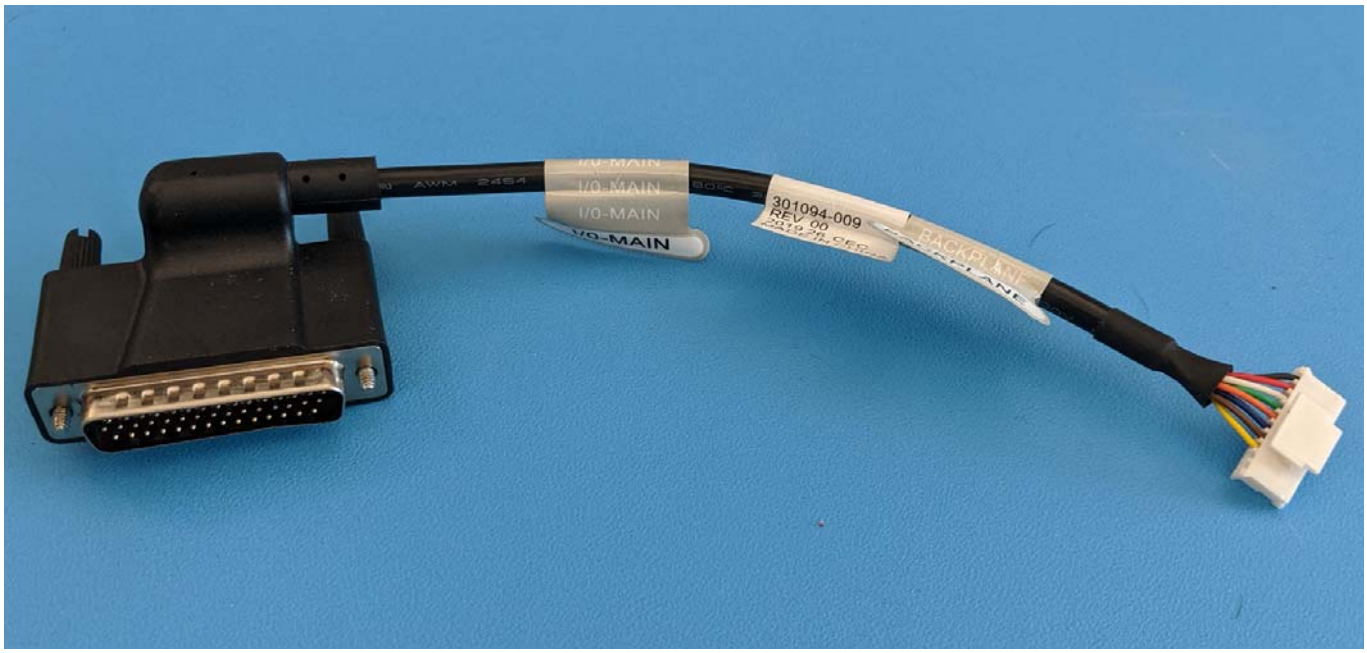
3. Install four screws found in your OS2 Upgrade Kit (two on either side) to attach the center piece to both side pieces. Use the screws with P/N 200244-008.



Assembled metal riser bracket

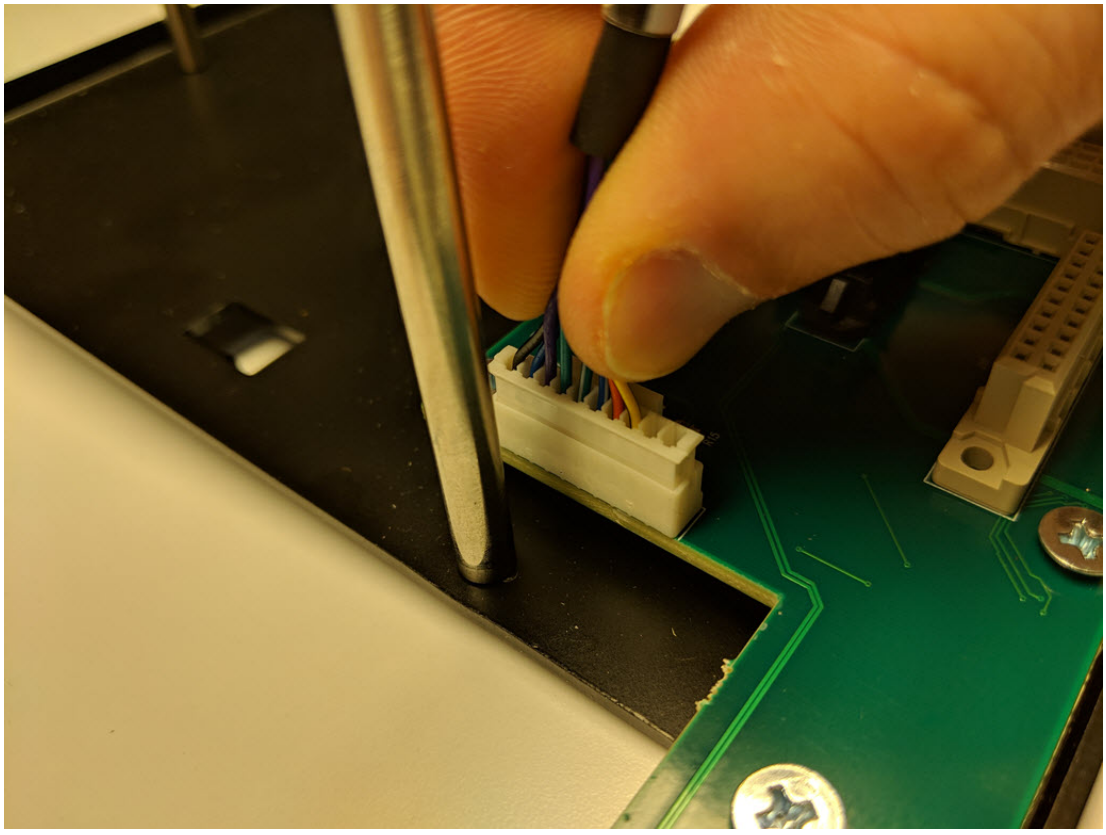
The assembled metal riser bracket will be installed in the jukebox in the next procedure (see section 3.2.2 Installing the Universal Computer and I/O Board Upgrade Kit).

4. Locate the I/O to Backplane cable.



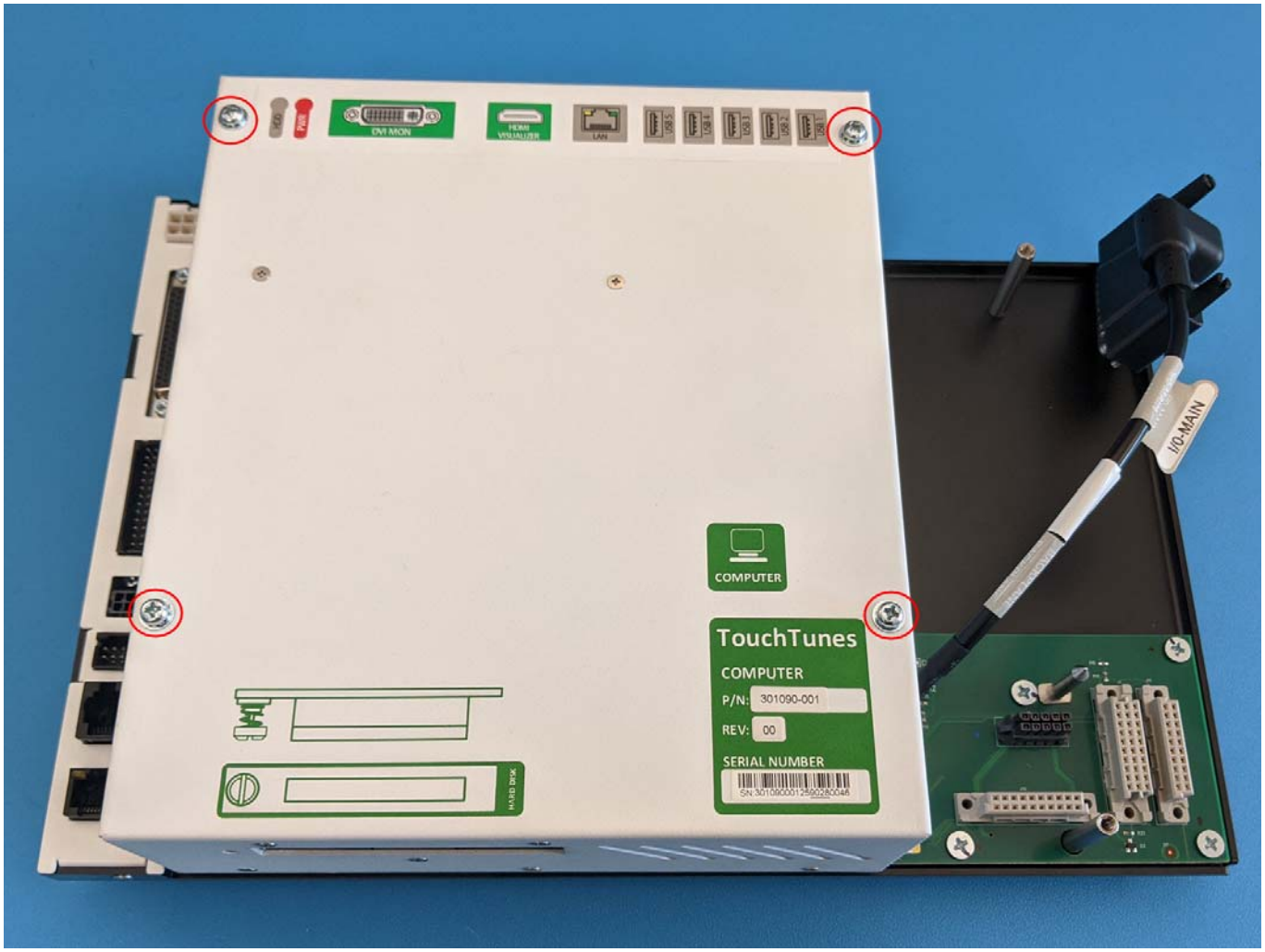
I/O to Backplane cable

5. Connect the end labeled “Backplane” to the backplane PCB (it should click into place).



Connecting cable to backplane

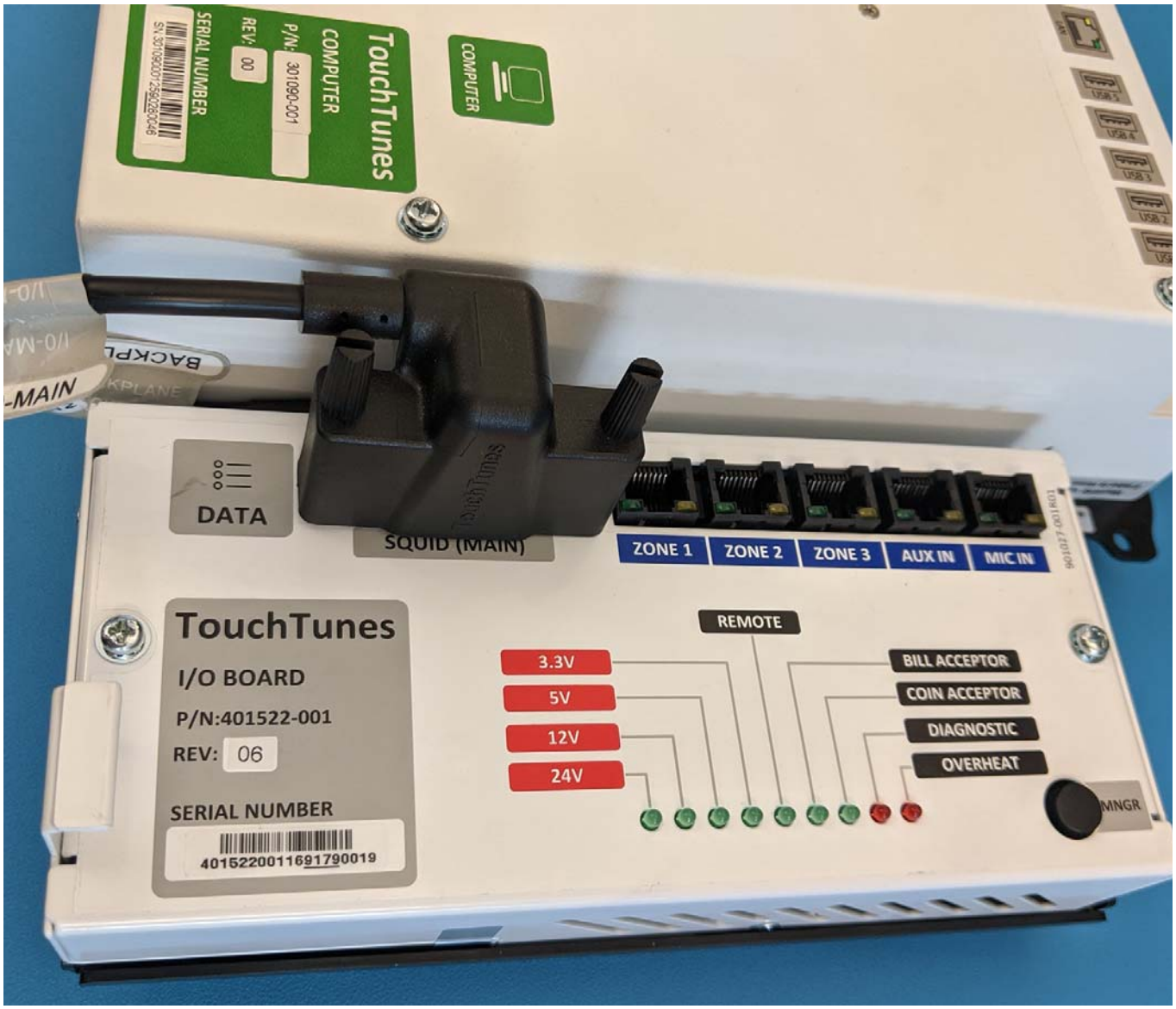
6. Place the computer onto the mounting bracket by lining up the posts with the holes on the back of the computer. With the computer in place, push up the bracket so that the computer is completely seated prior to fastening the 4 screws. This will ensure the correct alignment.
7. Secure the computer in place by fastening it with four screws found in your OS2 Upgrade Kit. Use the screws with P/N 200244-008.



Location of screws to secure the computer to the mounting bracket

8. Place the I/O Board onto the mounting bracket and secure it by fastening it with two screws found in your OS2 Upgrade Kit. Use the screws with P/N 200244-008.

9. Connect the other end of the I/O to Backplane cable to the I/O Board where it is marked “SQUID (MAIN)”.

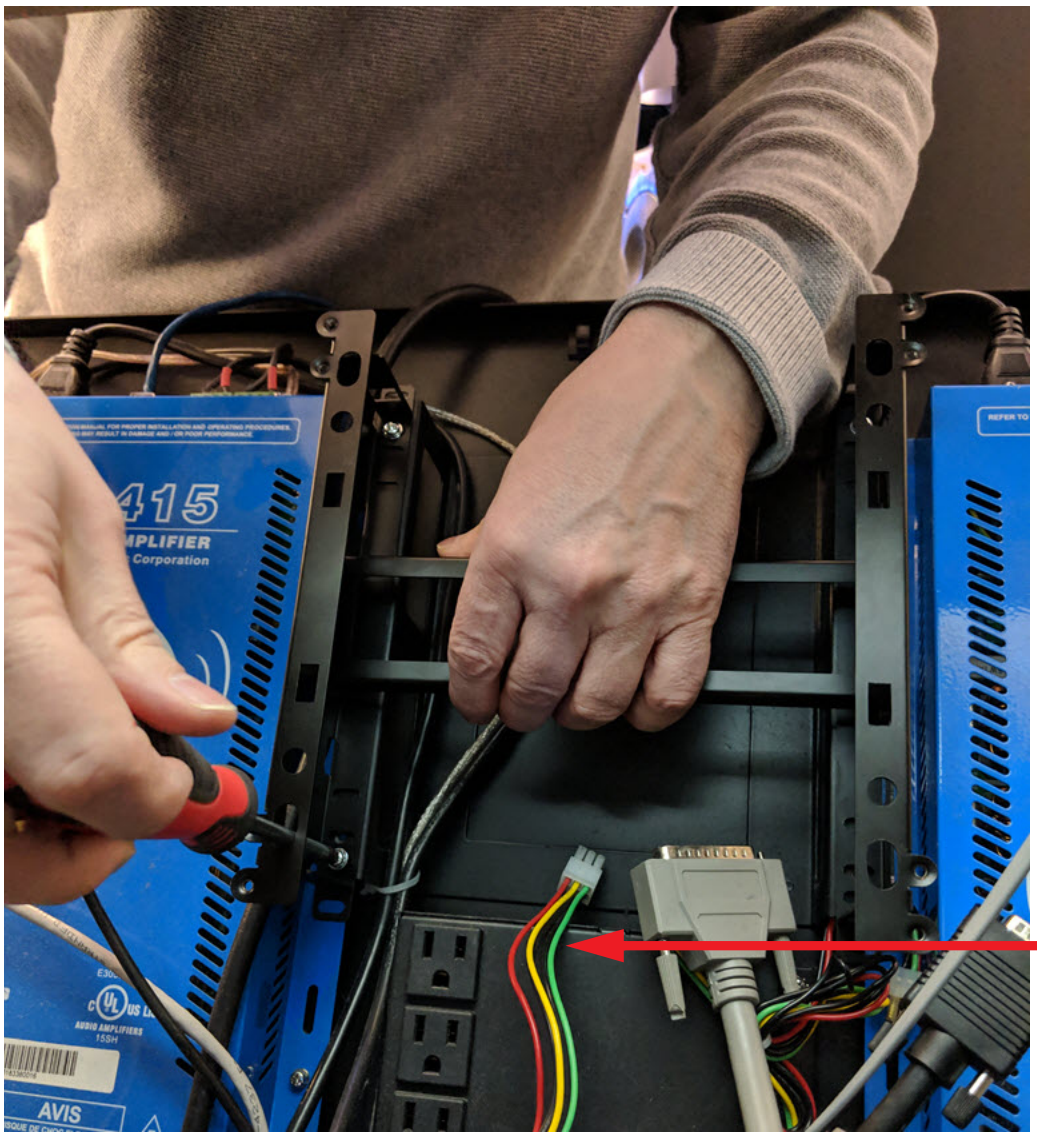


I/O to backplane cable connected to I/O Board

3.2.2 Installing the Universal Computer and I/O Board Upgrade Kit

To install the Computer and I/O Board assembly:

1. Install the metal riser bracket by fastening four screws found in your OS2 Upgrade Kit on top of the existing mounting bracket affixed to the jukebox. Use the screws with P/N 200244-008.

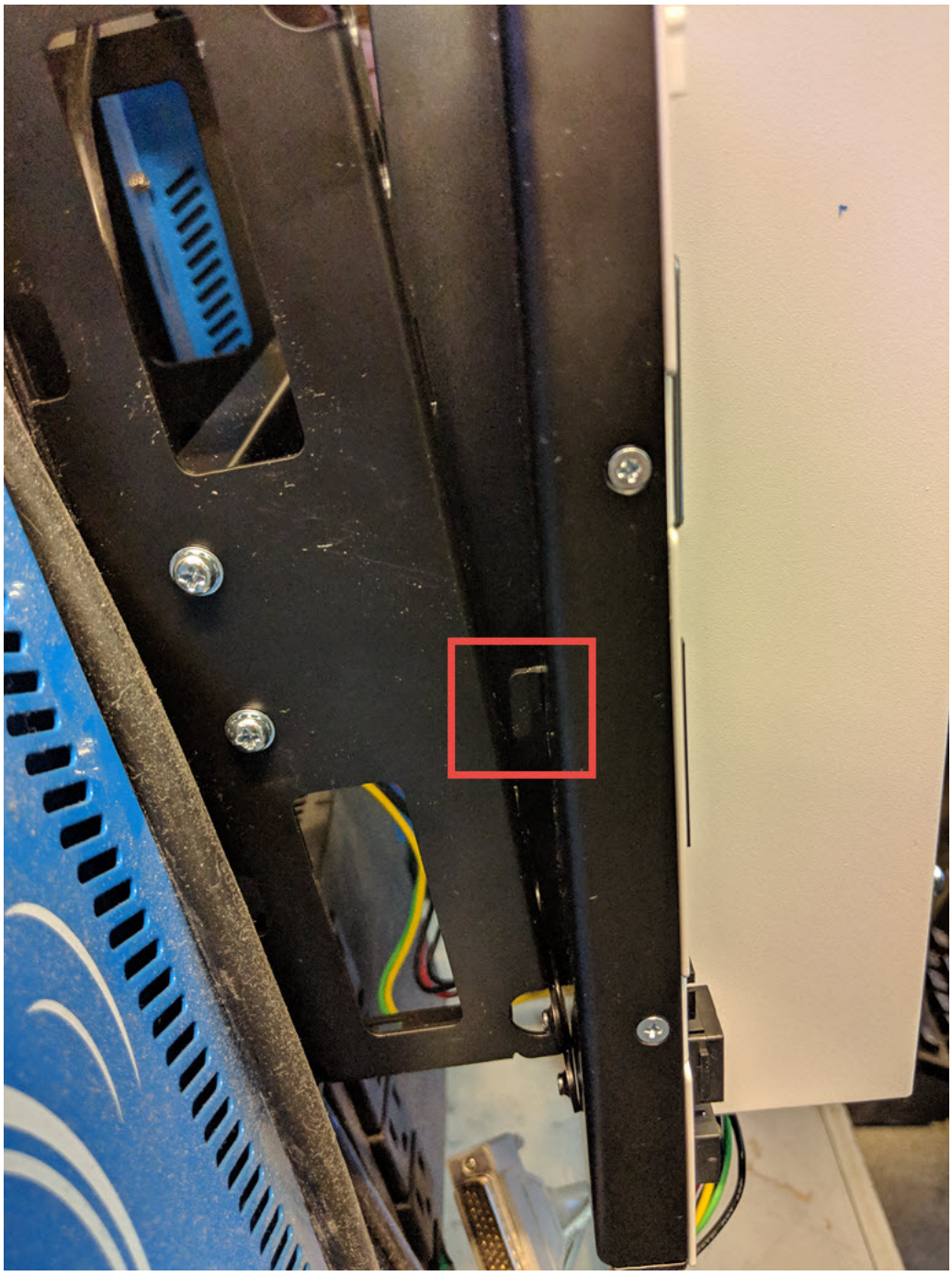


Installing metal riser bracket on MX-1

2. Connect the following extension cable to the MX-1 power supply cable (highlighted in the previous figure).

Extension cable for power supply

3. Align the flange hooks on the assembled mounting bracket with the two rectangular holes on the metal riser bracket and then rest the assembled mounting bracket on the riser bracket.



Aligning flange hooks with the metal riser bracket holes

4. Fasten two screws to the top right and left of the assembled mounting bracket to secure it to the metal riser bracket. Use the screws with P/N 200244-008.

Fastening mounting bracket to riser bracket

5. Connect all connections removed from the old computer to the Computer and I/O Board as follows. All connections are labeled.

Connections on MX-1 installation for JCB replacements

NOTE	The cables shown in the previous figure do not match the color and/or orientation of the cables provided in your kit. All cables are now black in color and the DVI-I to VGA cable is now right-angled.

6. Connect the end labeled “Monitor VGA” of the new video cable (P/N 301096-036) to the Female/Female video adapter (P/N 401704-001). The other end of this cable is connected to the new computer (as shown in the previous figure).

Mini adapter for video cables

7. Connect the adapted end of the new video cable to the existing video cable (which goes to the MX-1 monitor).

3.2.3 Installing the New Hard Drive

NOTE	The new computer (P/N 301090-001) uses a SATA hard drive with a red tray. Do **not** attempt to swap out the OS2 hard drive with the hard drive from a different computer or from another TouchTunes jukebox as you can incur damage to the current jukebox. Note that the hard drive is shipped separately from your OS2 Upgrade Kit.

To install the hard drive:

1. Unlock and open the jukebox.
2. Ground yourself by touching an exposed piece of metal in the jukebox case.
3. Ensure that the computer is powered OFF at the switch on the power supply.
4. Locate the hard drive for the new computer. The hard drive is contained in an enclosure. The hard drive and its enclosure are shipped separately from the OS2 Upgrade Kit. If the hard drive has not yet arrived at your location, contact TouchTunes.
5. Align the hard drive enclosure with its slot on the left-side under-panel of the computer. The hard drive enclosure cannot be inserted in its slot until it is properly aligned.
6. Insert the hard drive enclosure into the slot and then gently push the enclosure in until it is completely seated.
7. Using your fingers, push in and then tighten the thumb screw (clockwise) on the hard drive tray until the thumb screw is **securely** tightened.

IMPORTANT: Using a screwdriver applies significantly more torque than hand-tightening. Do **not** over-tighten.

IMPORTANT: Do not, under any circumstances, attempt to force the wrong type of hard drive into the HD slot of the new computer. By doing so, you risk serious damage to the hard drive and the computer.

8. Test whether the hard drive is firmly seated by pulling out firmly on the handle of the hard drive tray. The hard drive is secured properly when:
   - The thumb screw is completely compressed and covered by the cowl head of the thumbs screw, that is, the spring is not visible.
   - There is no gap between the edge of the hard drive tray and the computer.
   - There is no play between the hard drive and the computer when you pull outward on the handle of the hard drive tray. If you detect any play in the hard drive tray, using a slot-head screwdriver, tighten the thumb screw firmly into the computer and test again until no play is detected.

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Install OS2 Upgrade Kits in Allegro 4

This section provides the procedures that must be performed in order to complete the installation of the OS2 Upgrade Kits in an Allegro jukebox.

Topics

4.1 Removing the Computer

- 4.1.1 Removing an MJS-based Computer
- 4.1.2 Removing a JCB-based Computer

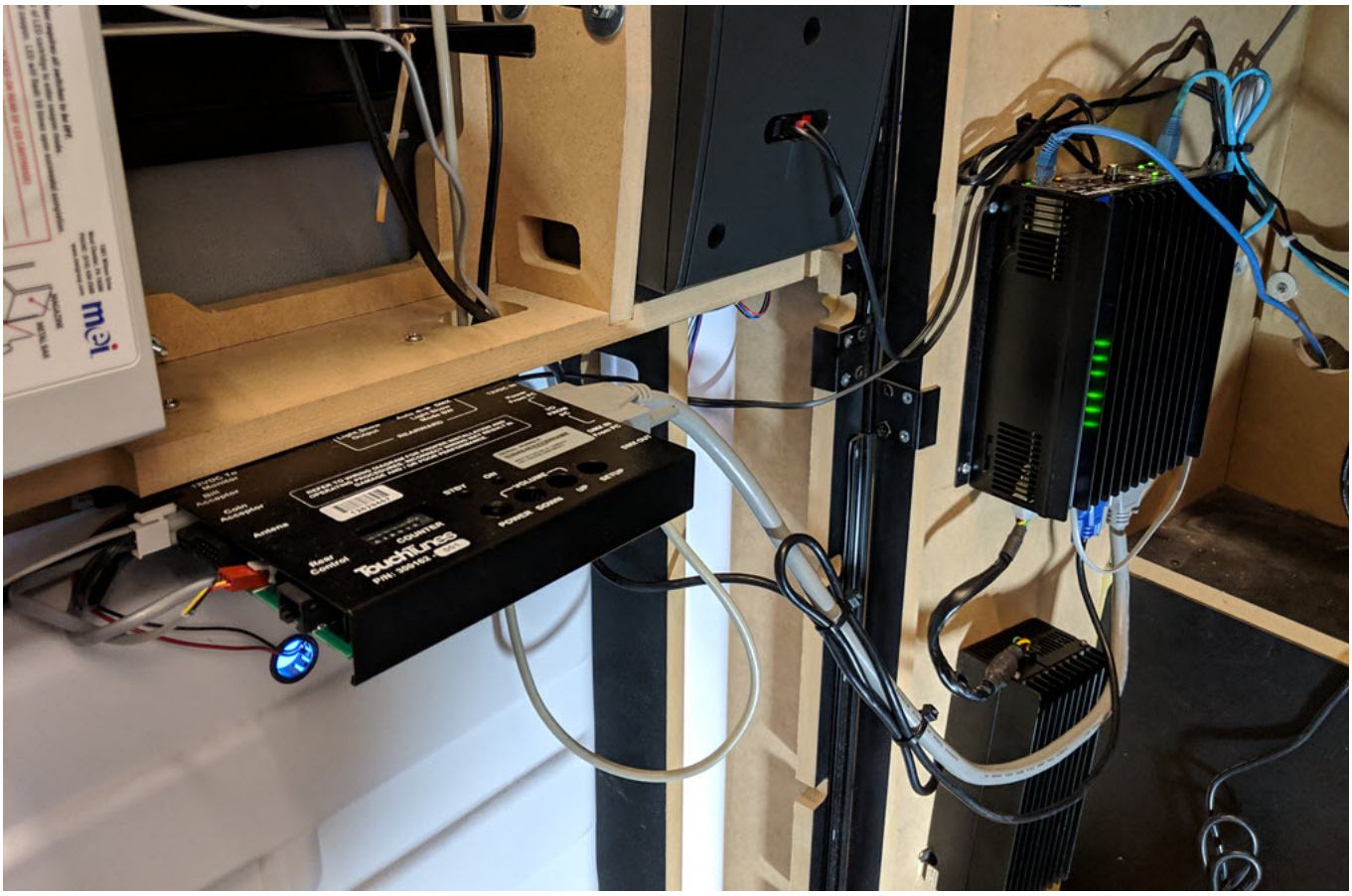
4.2 Installing New Components

- 4.2.1 Assembling the Universal Computer and I/O Board Upgrade Kit
- 4.2.2 Installing the Universal Computer and I/O Board Upgrade Kit
- 4.2.3 Assembling the Power Supply Unit Upgrade Kit
- 4.2.4 Installing the Power Supply Unit Upgrade Kit (where applicable)
- 4.2.5 Installing the New Hard Drive

4.1 Removing the Computer

To prepare your Allegro jukebox for installation of the OS2 Upgrade Kits, you must remove one of the following computer models: MJS, JCB, JCB**+** for JCB, or JCB**+** for MJS.

The following shows the component connections on an Allegro jukebox.



Component connections on an Allegro jukebox (JCB computer shown)

WARNING: To prevent risk of electrical shock, do not attempt any of the disassembly or reassembly procedures described herein without first disconnecting all electrical power to the jukebox.

4.1.1 Removing an MJS-based Computer

This procedure applies to a jukebox equipped with an MJS computer or a JCB**+** for MJS computer. If your jukebox has a JCB or a JCB**+** for JCB computer installed, skip to the next procedure in section 4.1.2 Removing a JCB-based Computer.

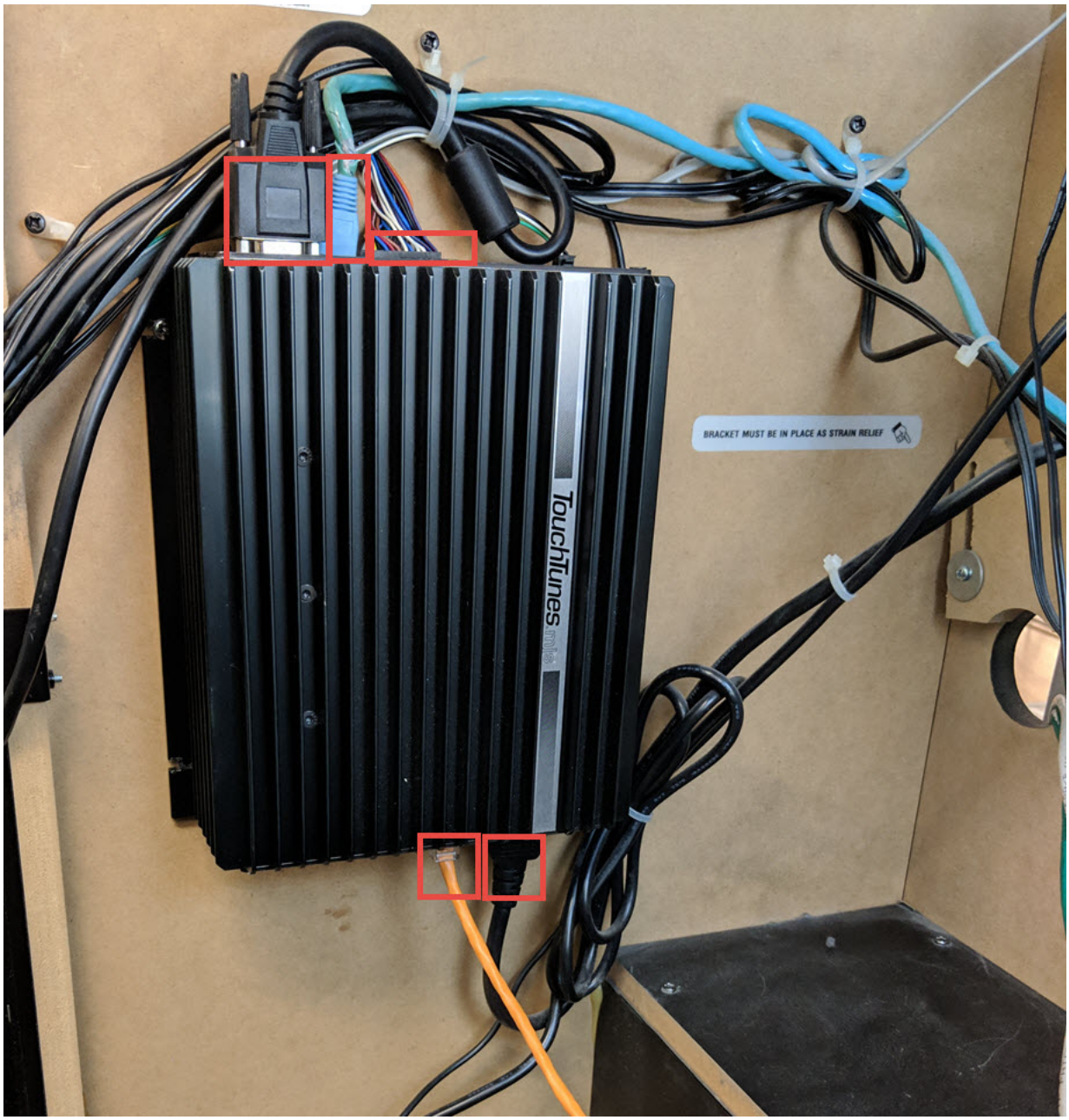
To remove the MJS computer:

1. Power off the jukebox.
2. Disconnect all electrical power to the jukebox.
3. Unlock and open the jukebox cabinet.

4. Disconnect the AC power cord from the power strip and from the AC inlet on the bottom panel of the MJS or the JCB**+** for MJS computer.

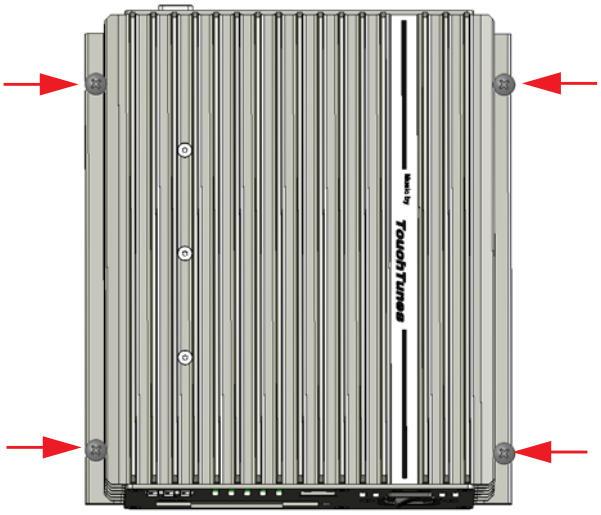
NOTE	Prior to performing the next step, it is recommended to use cable flags (or just pieces of tape) to tag each cable that connects to the jukebox computer, indicating which socket it goes into on the computer. At a minimum, you should label all the Ethernet cables (network, Zones 1 to 3, MIC and AUX IN, DMX) as these are very easy to mix up.

5. Disconnect all cables connected to the MJS or JCB**+** for MJS computer.



MJS computer connections in Allegro installation

6. Using a cross-head screwdriver, unfasten the four screws that secure the MJS or the JCB**+** for MJS computer to the cabinet (hold the computer in place while removing the last two screws to prevent it from falling). The four screws on the JCB**+** for MJS computer are in the same location as on the MJS computer.



Location of MJS computer mounting screws

7. Remove the computer from the jukebox.

4.1.2 Removing a JCB-based Computer

This procedure applies to a jukebox equipped with a JCB or JCB**+** for JCB computer.

WARNING: To prevent risk of electrical shock when performing the following procedure or any other maintenance on your jukebox, the jukebox must be powered off and its electrical power disconnected.

To remove the JCB computer:

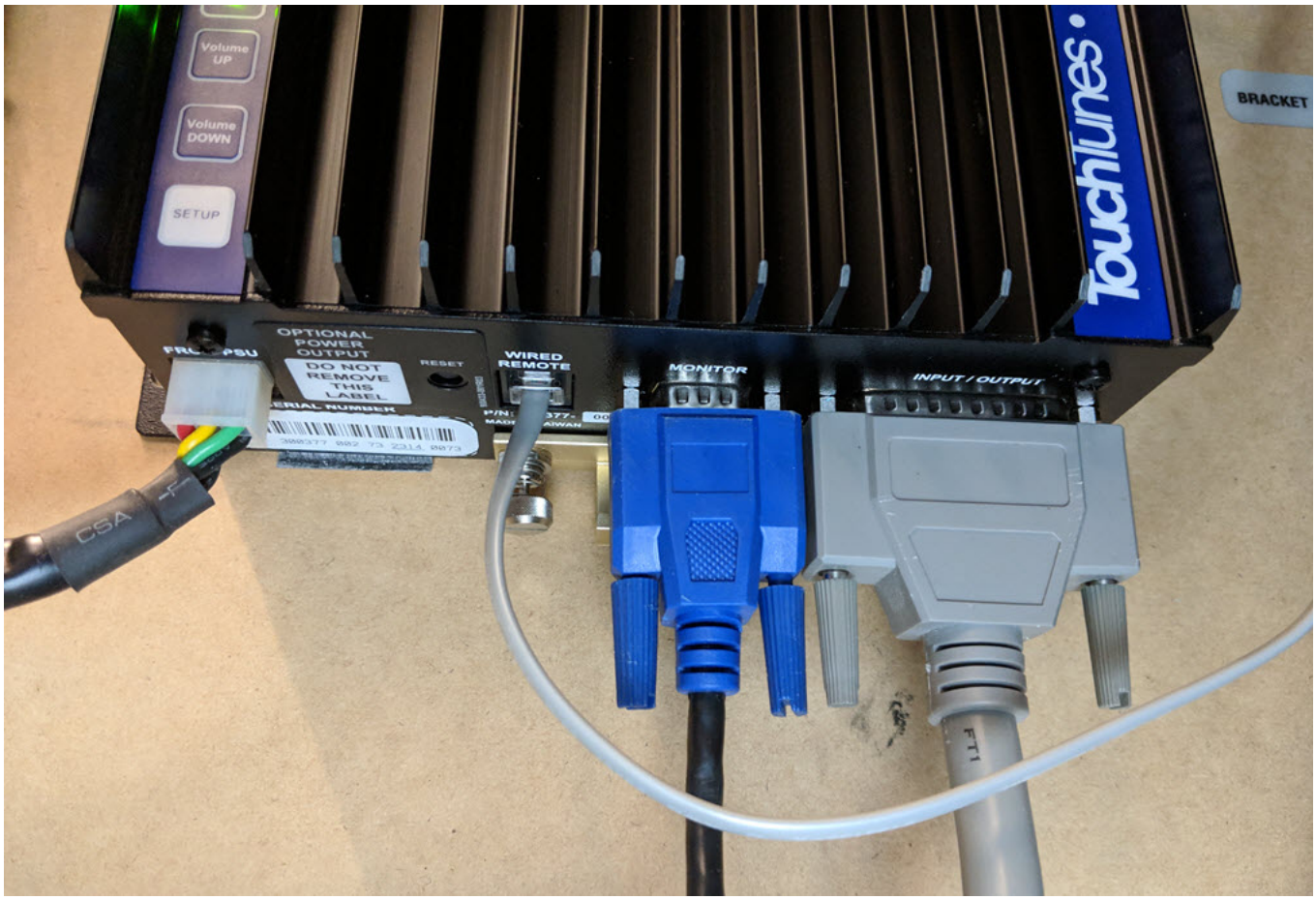
1. Power off the jukebox.
2. Disconnect all electrical power to the jukebox.
3. Unlock and open the jukebox front door.
4. Disconnect the AC power cord from the power strip and from the AC inlet on the bottom panel of the computer.

NOTE	Prior to performing the next step, it is recommended to use cable flags (or just pieces of tape) to tag each cable that connects to the existing jukebox computer, indicating which socket it goes into on the computer. At a minimum, you should label all Ethernet cables (network, Zones 1 to 3, MIC IN, AUX IN, and DMX) as these are very easy to mix up.

5. Disconnect all cables from the computer.

Connections at top of JCB computer (example shown without USB devices connected)

NOTE	Connector locations are slightly different on a JCB**+** for JCB computer from the ones shown above. However, all connector locations are labeled.



Connections at bottom of JCB computer

6. Find the four screws that hold the computer in place and remove each one (hold the computer in place while removing the last two screws to prevent it from falling).

Remove the screws from the JCB

7. Remove the computer and set it aside.

4.2 Installing New Components

4.2.1 Assembling the Universal Computer and I/O Board Upgrade Kit

1. Unpack the Upgrade Kit components. For photos of the components, see the following figures:
   - Metal riser bracket pieces on page 17
   - Mounting bracket for Computer and I/O Board on page 18
   - Universal computer on page 19
   - I/O Board on page 20
   - Upgrade Kit cables (RJ cables not shown) on page 20

IMPORTANT NOTE	The new computer (P/N 301090-001) is marked with a green label to indicate it is “universal”. If the P/N and label of the computer you receive does not match with that shown in the previous figure, then you have not received the correct model.

2. Place the riser bracket pieces as shown in the photo Position metal riser bracket pieces on page 21.
3. Install four screws found in your OS2 Upgrade Kit (two on either side) to attach the center piece to both side pieces. Use the screws with P/N 200244-008. See the photo Assembled metal riser bracket on page 22.

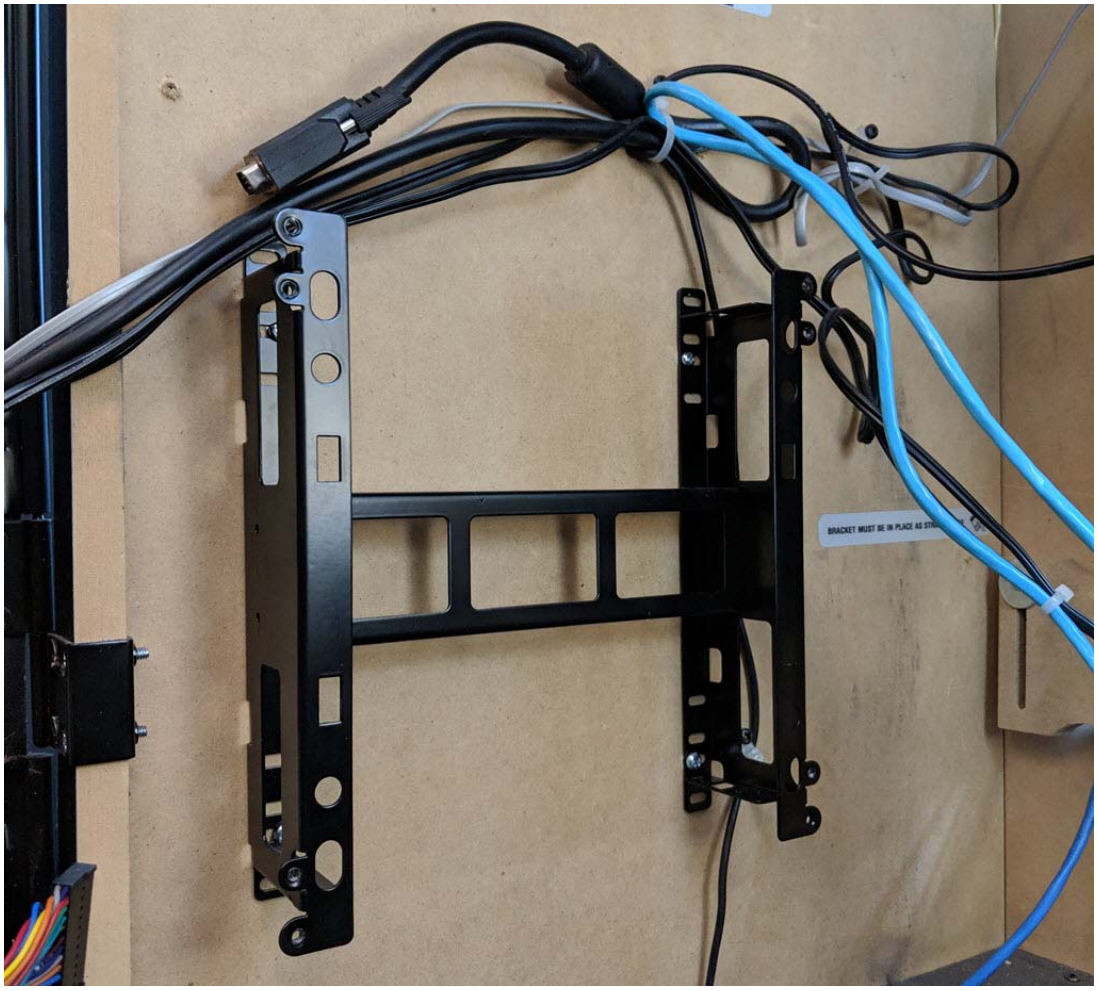
   The assembled metal riser bracket will be installed in the jukebox in the next procedure (see section 4.2.2 Installing the Universal Computer and I/O Board Upgrade Kit).
4. Locate the I/O to Backplane cable. See the photo I/O to Backplane cable on page 23.
5. Connect the end labeled “Backplane” to the backplane PCB (it should click into place). See the photo Connecting cable to backplane on page 23.
6. Place the computer onto the mounting bracket by lining up the posts with the holes on the back of the computer.
7. Secure the computer in place by fastening it with four screws found in your OS2 Upgrade Kit. Use the screws with P/N 200244-008. See the photo Location of screws to secure the computer to the mounting bracket on page 24.
8. Place the I/O Board onto the mounting bracket and secure it by fastening it with two screws found in your OS2 Upgrade Kit. Use the screws with P/N 200244-008.
9. Connect the other end of the I/O to Backplane cable to the I/O Board where it is marked “SQUID (MAIN)”. See the photo I/O to backplane cable connected to I/O Board on page 25.

4.2.2 Installing the Universal Computer and I/O Board Upgrade Kit

NOTE	If you are replacing an MJS computer or a JCB**+** for MJS computer, you must also install the PSU Upgrade Kit onto the Computer and I/O Board bracket before you can perform the following procedure. Go to section 4.2.3 Assembling the Power Supply Unit Upgrade Kit.

To install the Computer-I/O Board assembly:

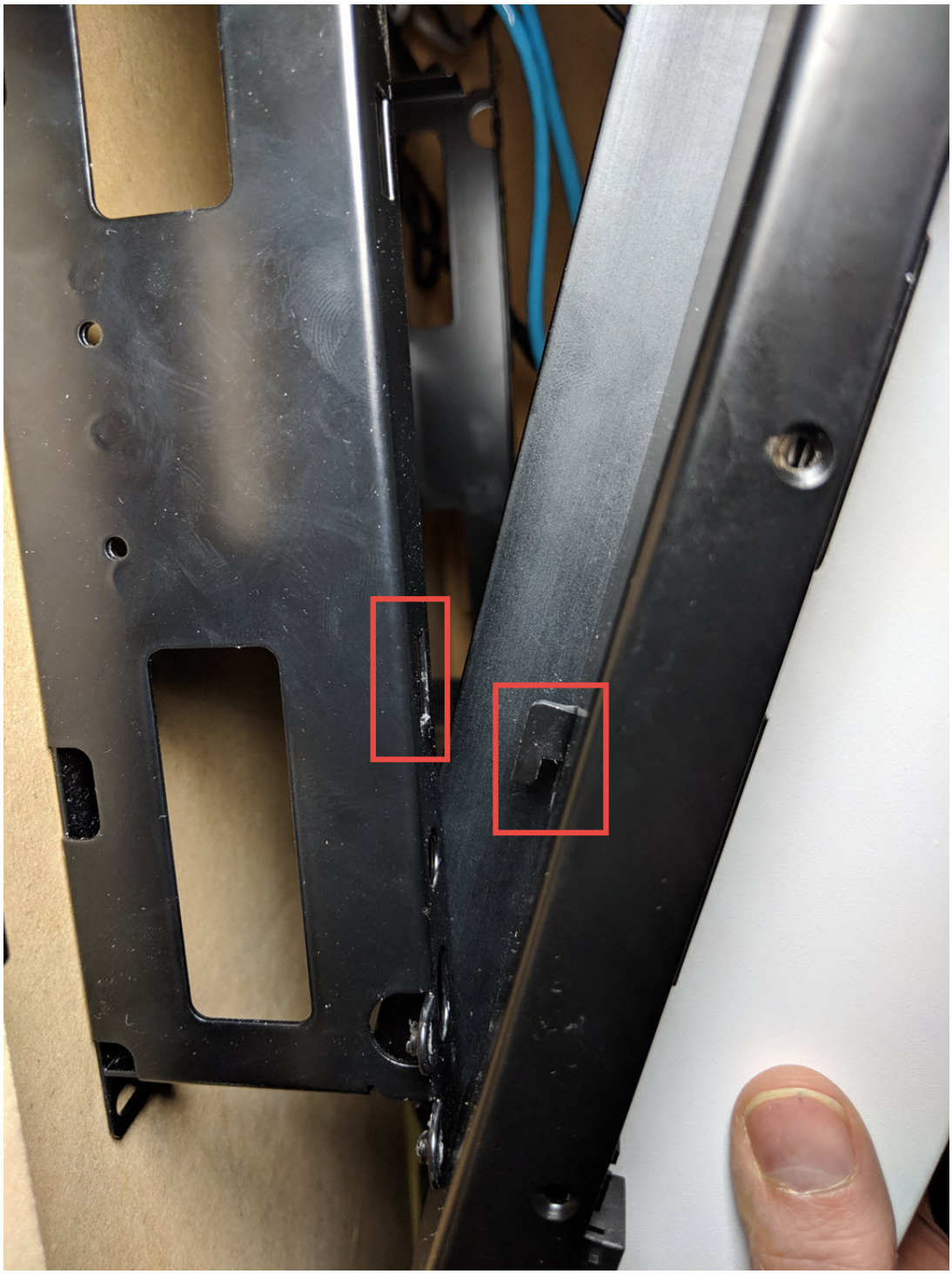
1. Install the metal riser bracket by fastening four screws found in your OS2 Upgrade Kit. Use the screws with P/N 200244-008. The following shows the riser bracket installed in an Allegro jukebox.



Riser bracket installed in Allegro

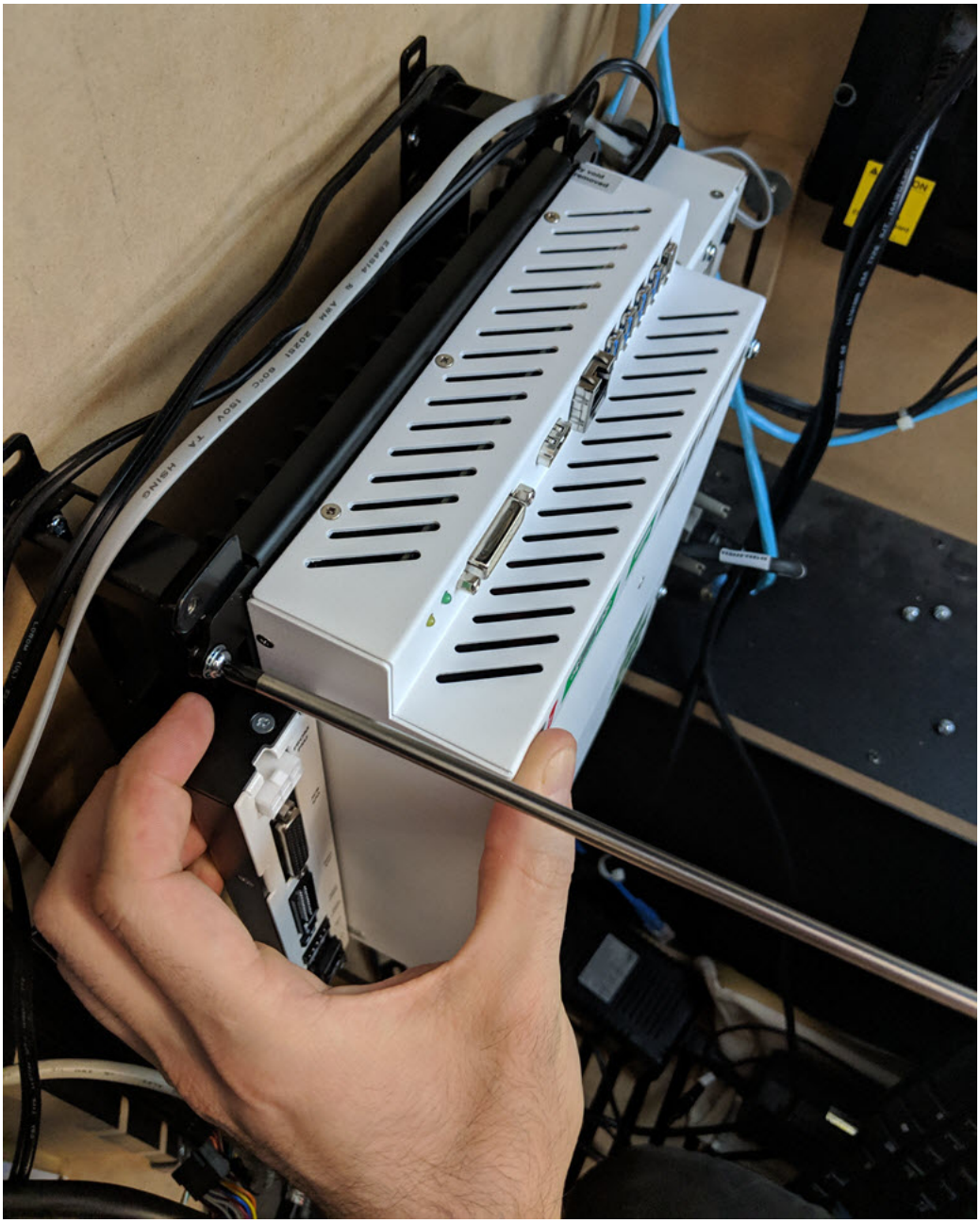
2. If you are replacing a JCB or JCB**+** for JCB computer, route the power cable through the back-top of the riser bracket.

3. Align the flange hooks on the assembled mounting bracket with the two rectangular holes on the riser bracket and then rest the assembled mounting bracket on the riser bracket.



Aligning assembled mounting bracket flange hooks with riser bracket holes

4. Fasten two screws to the top right and left of the assembled mounting bracket to secure it to the riser bracket. Use the screws with P/N 200244-008.



Fasten assembled mounting bracket to the riser bracket

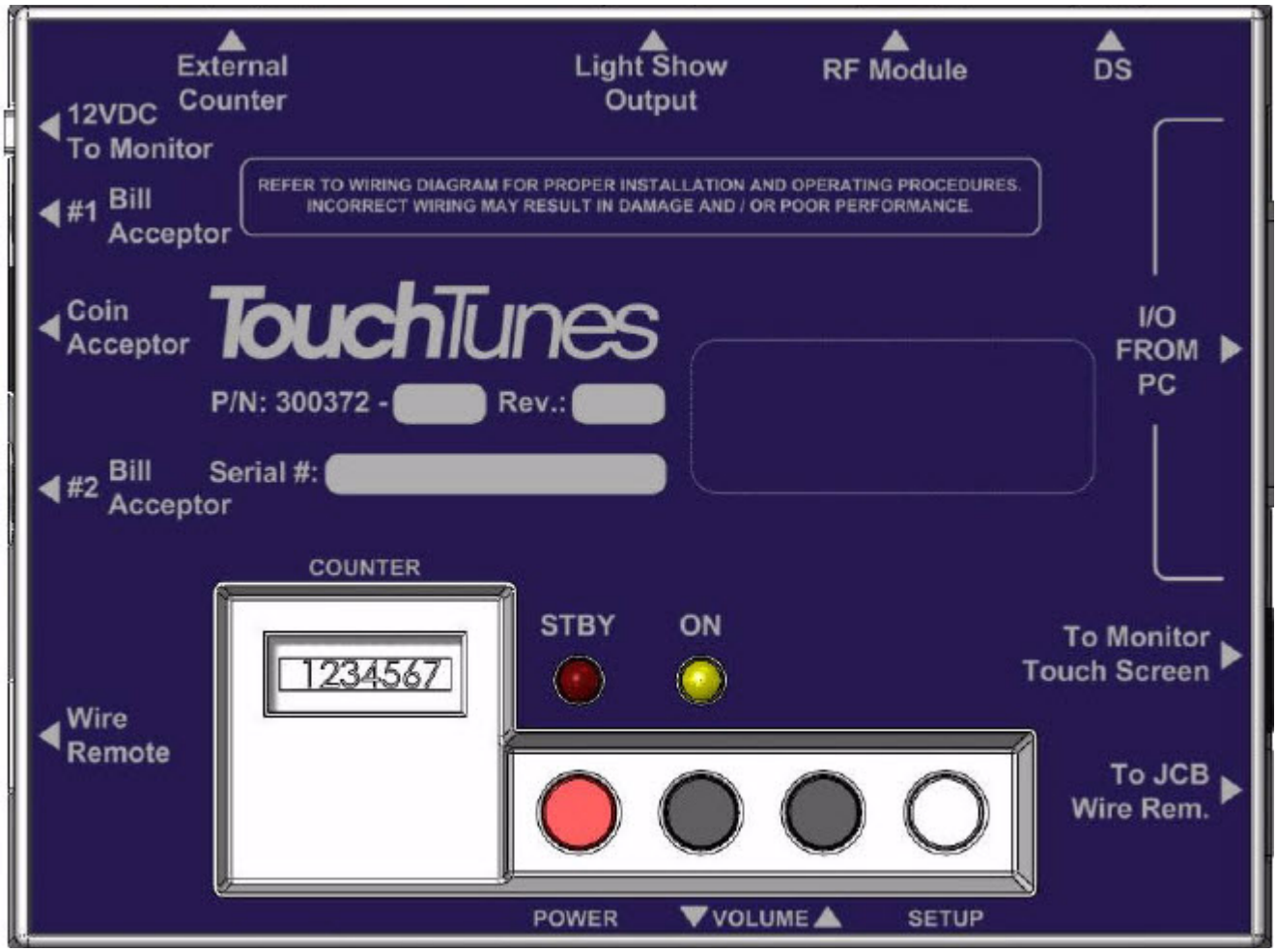
5. If you are replacing an MJS or JCB**+** for MJS computer, the power cable is extended by the new cable provided in your Power Supply Unit Upgrade Kit (which is connected to the Power Supply Unit mounting bracket in the procedure in section 4.2.3 Assembling the Power Supply Unit Upgrade Kit).

6. Connect all connections removed from the old computer to the new computer and I/O Board as follows. All connections are labeled.

Connections on Allegro installation for MJS replacement (the PSU is not installed for JCB replacements)

NOTE	The cables shown in the previous figure do not match the color or orientation of the cables provided in your kit. All cables are now black in color and the DVI-I to VGA cable is now right-angled.

7. For JCB replacements, connect the I/O cable from the control board (shown below) to the connection point on the side of the backplane labeled “JCB I/O” (highlighted in red in the figure on the next page).



Control board (for JCB replacements)

NOTE	Following installation of the OS2 upgrade kit for JCB replacements, the buttons on the control board (shown above) no longer function. Use the MNGR button on the I/O Board instead of the SETUP button. Use the power button and volume controls on the wired remote located at the back of the jukebox instead of the POWER and VOLUME control buttons on the control board. To continue using the Power and volume control buttons, you must apply the following connections using an RJ11 6 pin cable (which is not contained in your kit and must be **acquired separately**). • Plug the existing RJ11 4 pin wired remote cable into the control board where labeled “Wire Remote”. • Plug one end of the newly acquired RJ11 6 pin cable into the control board where labeled “To JCB Wire Rem.”. • Plug the other end of the RJ11 6 pin cable into the side of the OS2 backplane where labeled “WR”.

JCB I/O connection point

8. Connect the end labeled “Monitor VGA” of the new video cable (P/N 301096-036) to the Female/Female video adapter (P/N 401704-001). The other end of this cable is plugged into the new computer (as shown in figure Connections on Allegro installation for MJS replacement (the PSU is not installed for JCB replacements) on page 44).

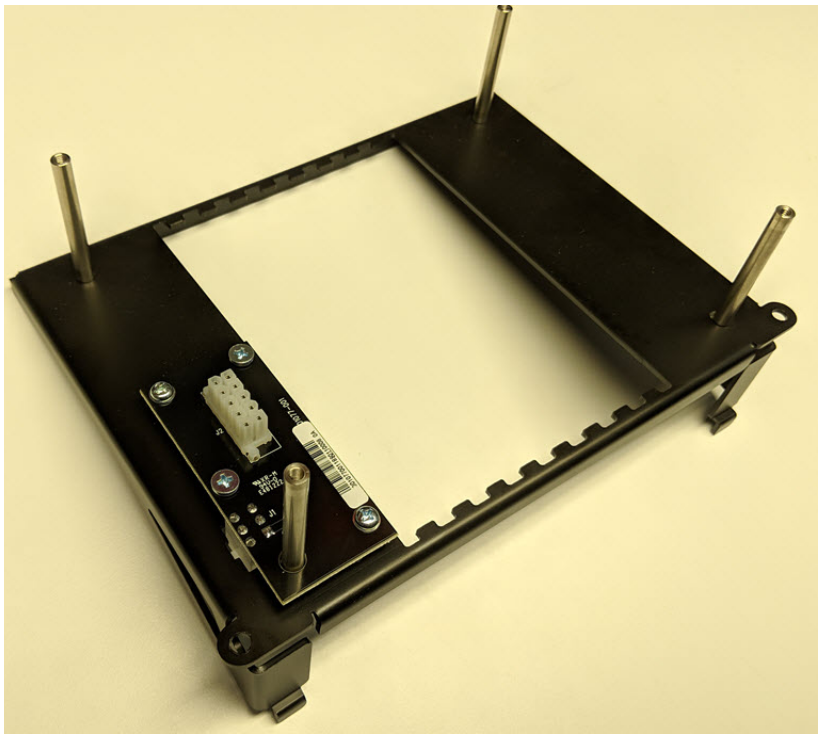
Mini gender adapter for video cables

9. Connect the adapted end of the new video cable to the existing video cable (which goes to the jukebox monitor).
10. Connect one end of the AC power cord to the PSU and the other end to the power supply (**for MJS replacement only**). This cable (P/N 301099-036) is found in the Power Supply Unit Upgrade Kit (which is assembled in the procedure in section 4.2.3 Assembling the Power Supply Unit Upgrade Kit).

4.2.3 Assembling the Power Supply Unit Upgrade Kit

This procedure only applies when replacing an MJS computer or a JCB**+** for MJS computer. It is not applicable when replacing a JCB or JCB**+** for JCB computer.

1. Unpack the Power Supply Unit (PSU) mounting bracket.



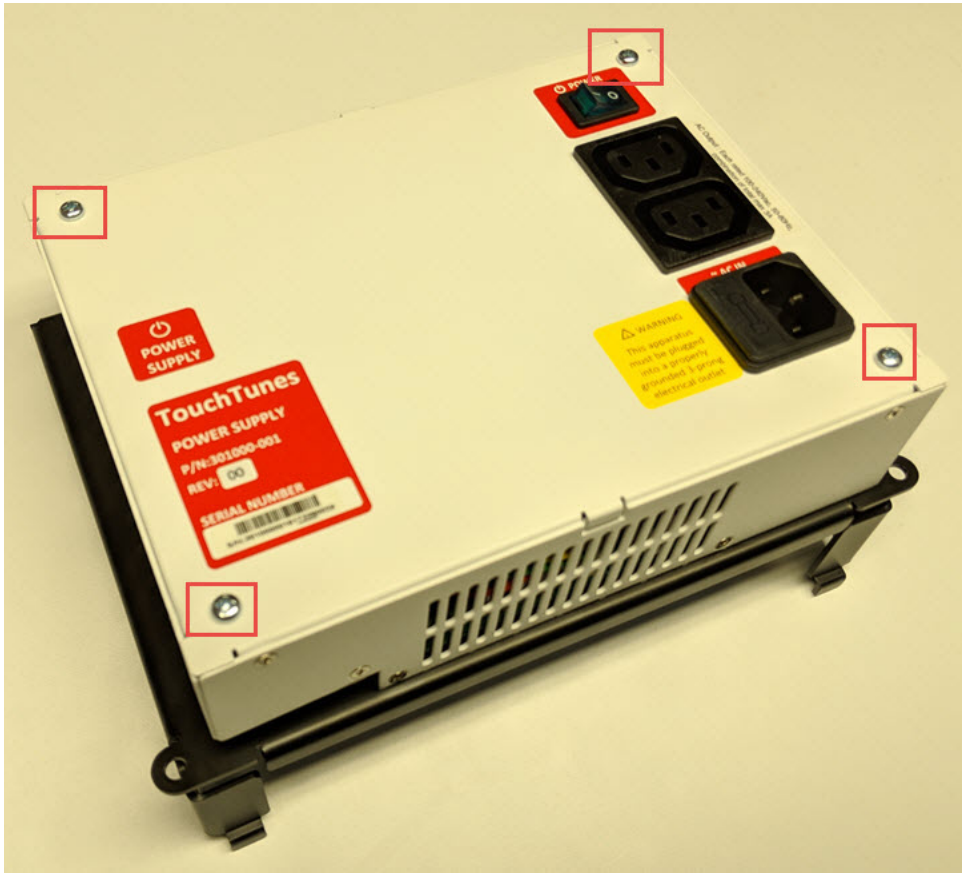
Power Supply Unit mounting bracket

2. Unpack the Power Supply Unit.

Back of Power Supply Unit

3. Place the Power Supply Unit on the mounting bracket aligning the 4 metal studs with holes on the back of the PSU and ensuring the larger connector aligns with the corresponding connector on the PCB (the holes and connector are highlighted in red in the previous figure).

4. Attach the Power Supply Unit to the mounting bracket using the screws (P/N 200244-008) from your Power Supply Unit Upgrade Kit (P/N 600304-001).



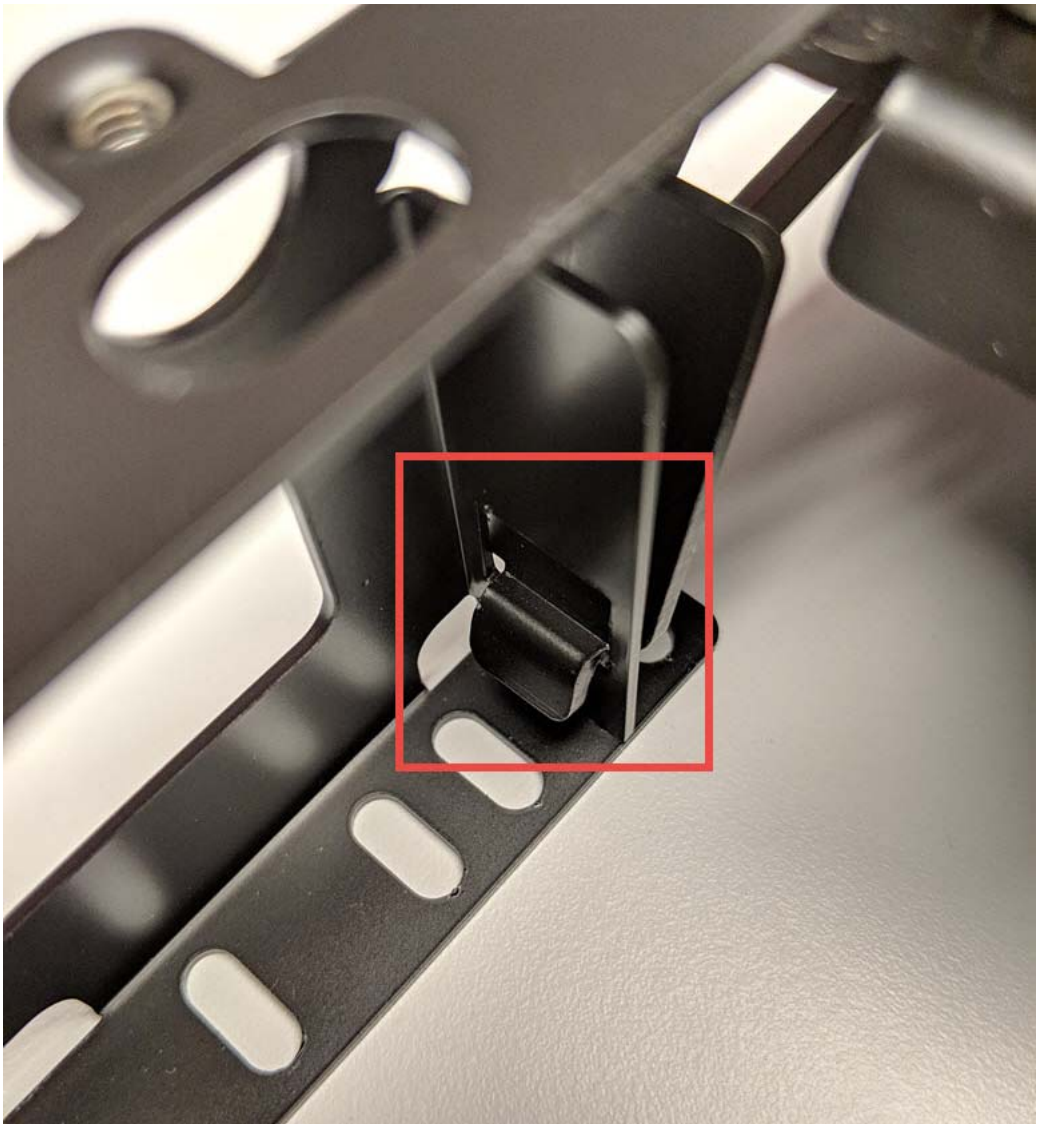
Location of screws on Power Supply Unit

5 Flip the assembly over and connect the extension cable from your OS2 Upgrade Kit (P/N 301095-014) as follows.

Back of Power Supply Unit mounting bracket assembly

- Route the other end of this cable down and through the side of the metal riser bracket once the assembled Power Supply Unit mounting bracket is installed on the Computer-I/O Board mounting bracket.

6. Align the flange hooks at the bottom of the assembled Power Supply Unit mounting bracket with the slots located on the top of the assembled computer and I/O Board mounting bracket.



Align flange hooks onto assembled computer and I/O Board mounting bracket

7. Ensure that the 2 clearance holes on the assembled Power Supply Unit mounting bracket are aligned over the threaded holes on the assembled computer and I/O Board mounting bracket.

Aligning mounting bracket holes for screws

8. Fasten the assembled Power Supply Unit mounting bracket to the computer and I/O Board mounting bracket using two screws (P/N 200244-008) found in your Universal Computer and I/O Board Upgrade Kit (P/N 600303-001).

9. Connect the other end of the power supply extension cable (P/N 301095-014) initially connected in step 5 to the side of the assembled mounting bracket (where it is labeled “FROM PSU”).

PSU cable connection on mounting bracket

4.2.4 Installing the Power Supply Unit Upgrade Kit (where applicable)

To complete the combined Computer-I/O Board-PSU mounting bracket installation on the jukebox, go to section 4.2.2 Installing the Universal Computer and I/O Board Upgrade Kit.

4.2.5 Installing the New Hard Drive

NOTE	The new computer uses a SATA hard drive with a red tray. Do **not** attempt to swap the hard drive with an IDE drive from another TouchTunes jukebox model, as you can damage the jukebox.

To install the hard drive:

1. Unlock and open the jukebox.
2. Ground yourself by touching an exposed piece of metal in the jukebox case.
3. Ensure that the computer is powered OFF at the switch on the power supply.
4. Locate the hard drive for OS2. The OS2 hard drive is contained in an enclosure. The hard drive and its enclosure are shipped separately from the OS2 Upgrade Kits. If the hard drive has not yet arrived at your location, contact TouchTunes.
5. Align the hard drive enclosure with its slot on the left-side under-panel of the computer. The hard drive enclosure cannot be inserted in its slot until it is properly aligned.
6. Insert the hard drive enclosure into the slot and then gently push the enclosure in until it is completely seated.
7. Using your fingers, push in and then tighten the thumb screw (clockwise) on the hard drive tray until the thumb screw is **securely** tightened.

IMPORTANT: Using a screwdriver applies significantly more torque than hand-tightening. Do **not** over-tighten.

IMPORTANT: Do not, under any circumstances, attempt to force the wrong type of hard drive into the HD slot of the new computer. By doing so, you risk serious damage to the hard drive and the computer.

8. Test whether the hard drive is firmly seated by pulling out firmly on the handle of the hard drive tray. The hard drive is secured properly when:
   - The thumb screw is completely compressed and covered by the cowl head of the thumbs screw, that is, the spring is not visible.
   - There is no gap between the edge of the hard drive tray and the computer.
   - There is no play between the hard drive and the computer when you pull outward on the handle of the hard drive tray. If you detect any play in the hard drive tray, using a slot-head screwdriver, tighten the thumb screw firmly into the computer and test again until no play is detected.

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5 Install OS2 Upgrade Kit in Genesis or Rhapsody

This section provides the procedures that must be performed in order to complete the installation of the OS2 Upgrade Kit in a Genesis or Rhapsody jukebox that has been previously upgraded with the JCB Upgrade Kit and is therefore equipped with a JCB conversion bracket (P/N 600079-001). **If the jukebox is not already equipped with this component, you will be unable to upgrade to OS2.**

Topics

5.1 Removing JCB or JCB+ for JCB Computer

5.2 Installing New Components

- 5.2.1 Assembling the Universal Computer and I/O Board Upgrade Kit
- 5.2.2 Installing the Universal Computer and I/O Board Upgrade Kit

5.1 Removing JCB or JCB+ for JCB Computer

To prepare your jukebox for installation of the OS2 Upgrade Kit, you must disconnect and remove the existing computer (JCB or JCB**+** where applicable).

The following shows the location of the computer in a Genesis jukebox.

Location of computer in Genesis jukebox

The location of the computer in a Rhapsody jukebox is the same.

This procedure applies to a jukebox equipped with a JCB or JCB**+** for JCB computer.

WARNING: To prevent risk of electrical shock when performing the following procedure or any other maintenance on your jukebox, the jukebox must be powered off and its electrical power disconnected.

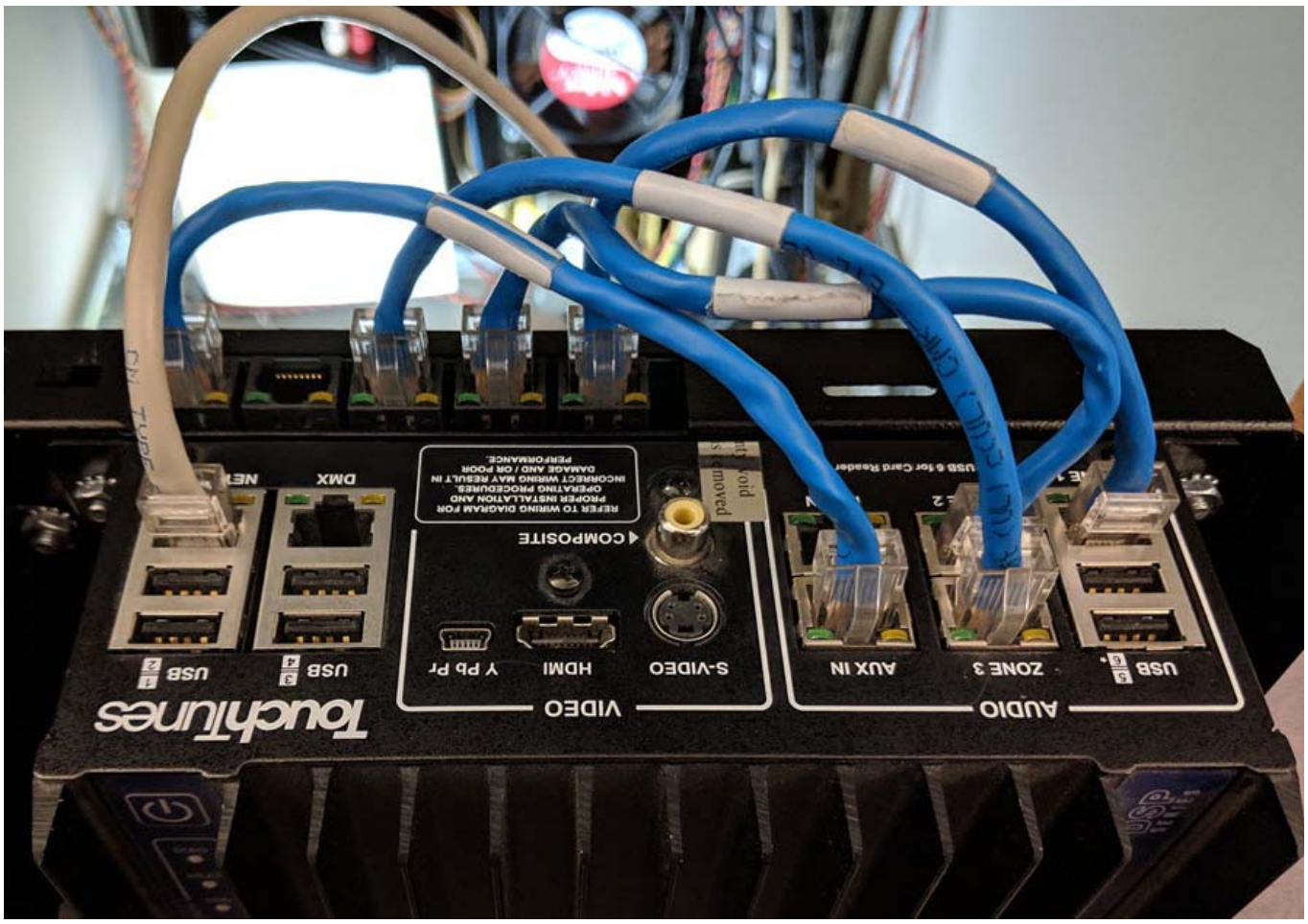
To remove the computer:

1. Unlock and open the jukebox front drawer.
2. Power off the jukebox.

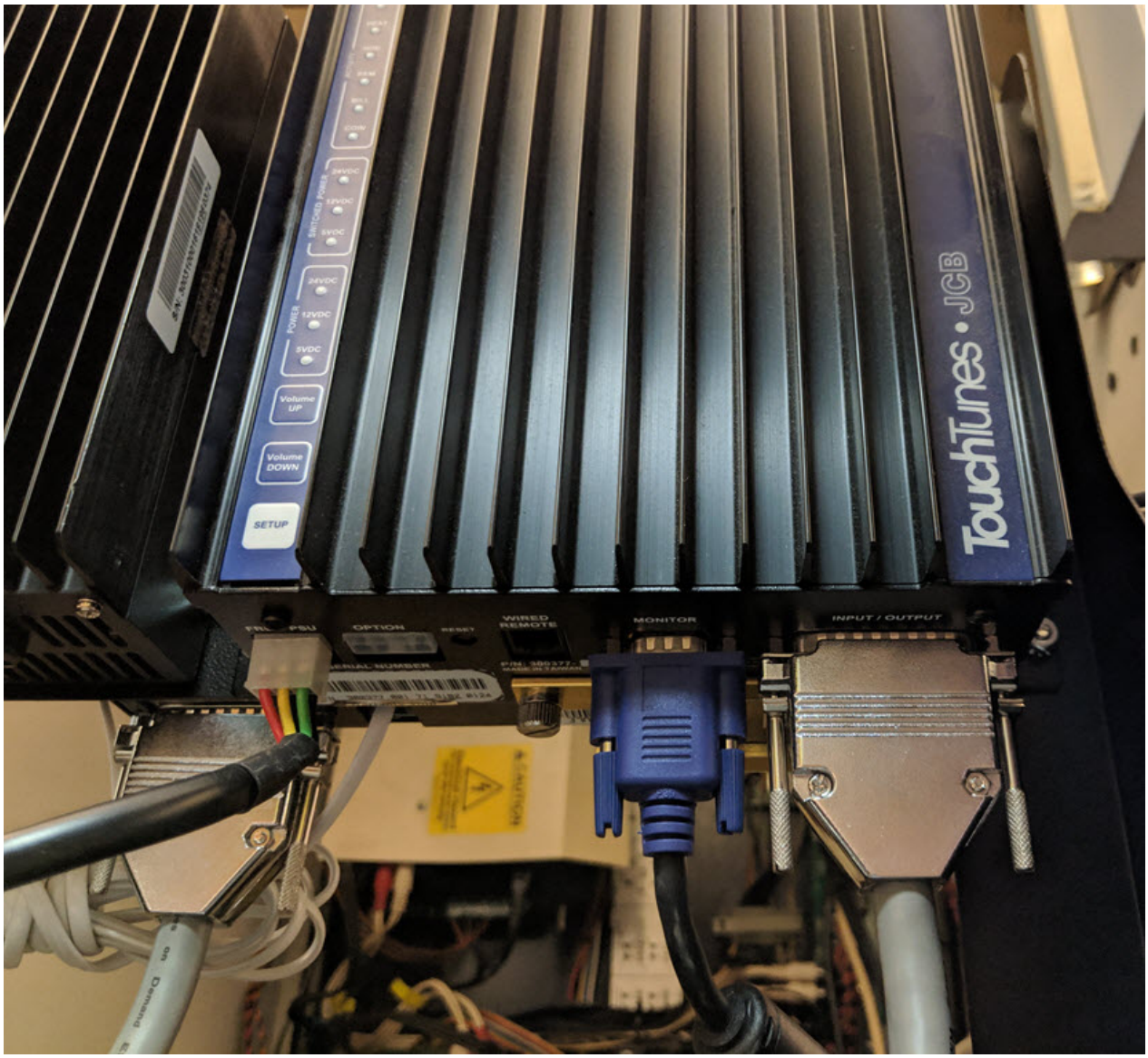
3. Disconnect all electrical power cables from the jukebox.

NOTE	Prior to performing the next step, it is recommended to use cable flags (or just pieces of tape) to tag each cable that connects to the jukebox computer, indicating which socket it goes into on the computer. At a minimum, you should label all the Ethernet cables (network, Zones 1 to 3, MIC and AUX IN, DMX) as these are very easy to mix up.

4. Disconnect all the cables that go into the computer.

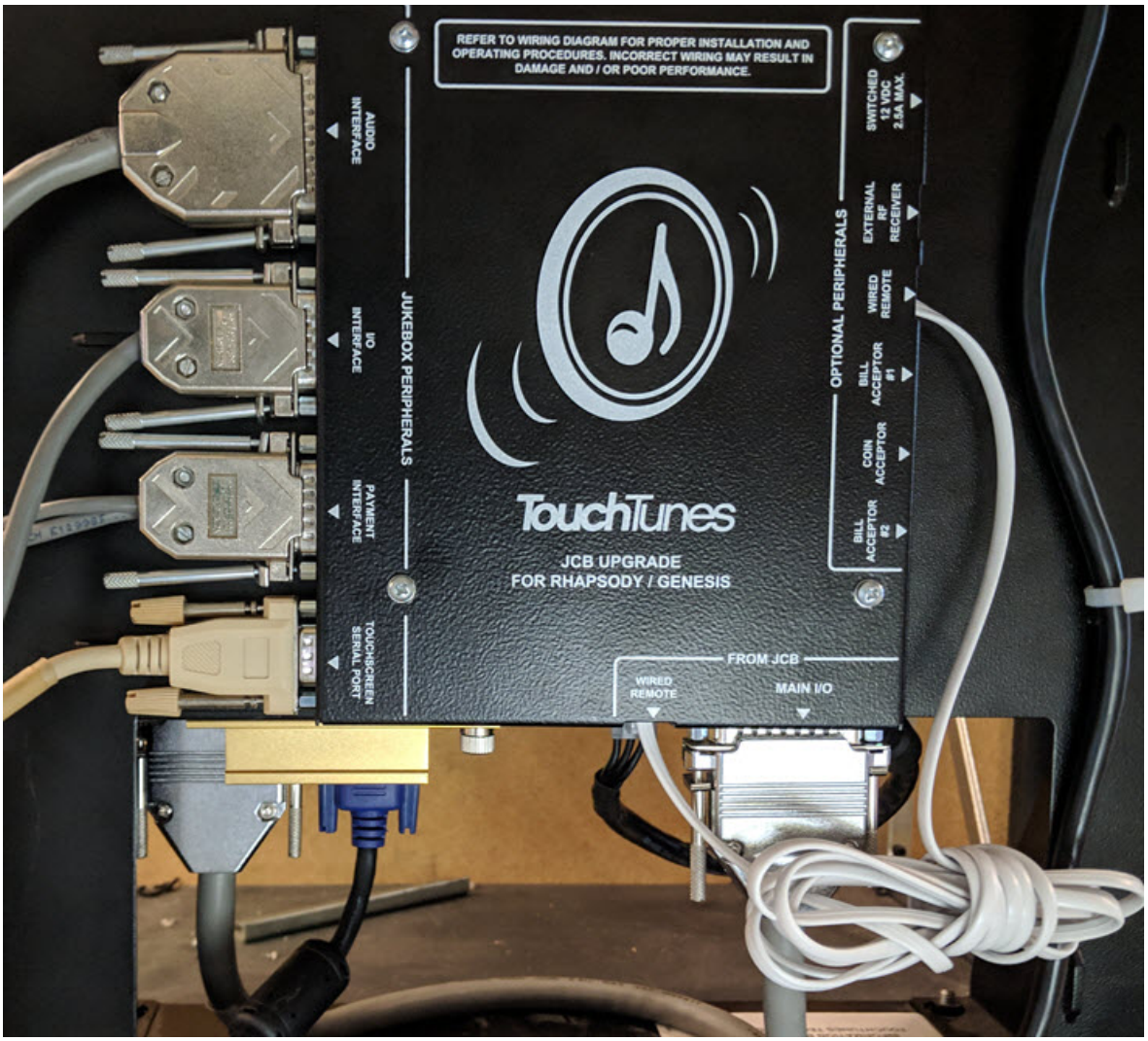


Connections to remove from top of the JCB



Connections to remove from bottom of the JCB

5. Remove the connections from the back of the PC Interface Module.



Connections to remove from the PC Interface Module

6. Using a cross-head screwdriver, remove the locking bracket that secures the computer to the shelf. Put the locking bracket aside; it will be required when installing the upgrade kit.
7. Push gently on the side of the JCB kit to disengage it from the retaining bracket, and then remove the kit from the jukebox.
8. Remove the cables that connect the JCB to the power supply and PC Interface Module (highlighted in green in the following figure).

Remove the screws from the JCB

9. Remove the lug nuts that hold the JCB in place (highlighted in red in the previous figure). Hold the computer in place while removing the last two lug nuts to prevent it from falling. Set these aside as they will be re-used when installing the OS2 Upgrade Kit in section 5.2.2 Installing the Universal Computer and I/O Board Upgrade Kit.
10. Remove the JCB computer and set it aside.

5.2 Installing New Components

5.2.1 Assembling the Universal Computer and I/O Board Upgrade Kit

1. Unpack the Upgrade Kit components. For photos of the components, see the following photos:
   - Metal riser bracket pieces on page 17
   - Mounting bracket for Computer and I/O Board on page 18
   - Universal computer on page 19
   - I/O Board on page 20
   - Upgrade Kit cables (RJ cables not shown) on page 20

IMPORTANT NOTE	The new computer (P/N 301090-001) is marked with a green label to indicate it is “universal”. If the P/N and label color of the computer you receive do not match, then you have not received the correct model.

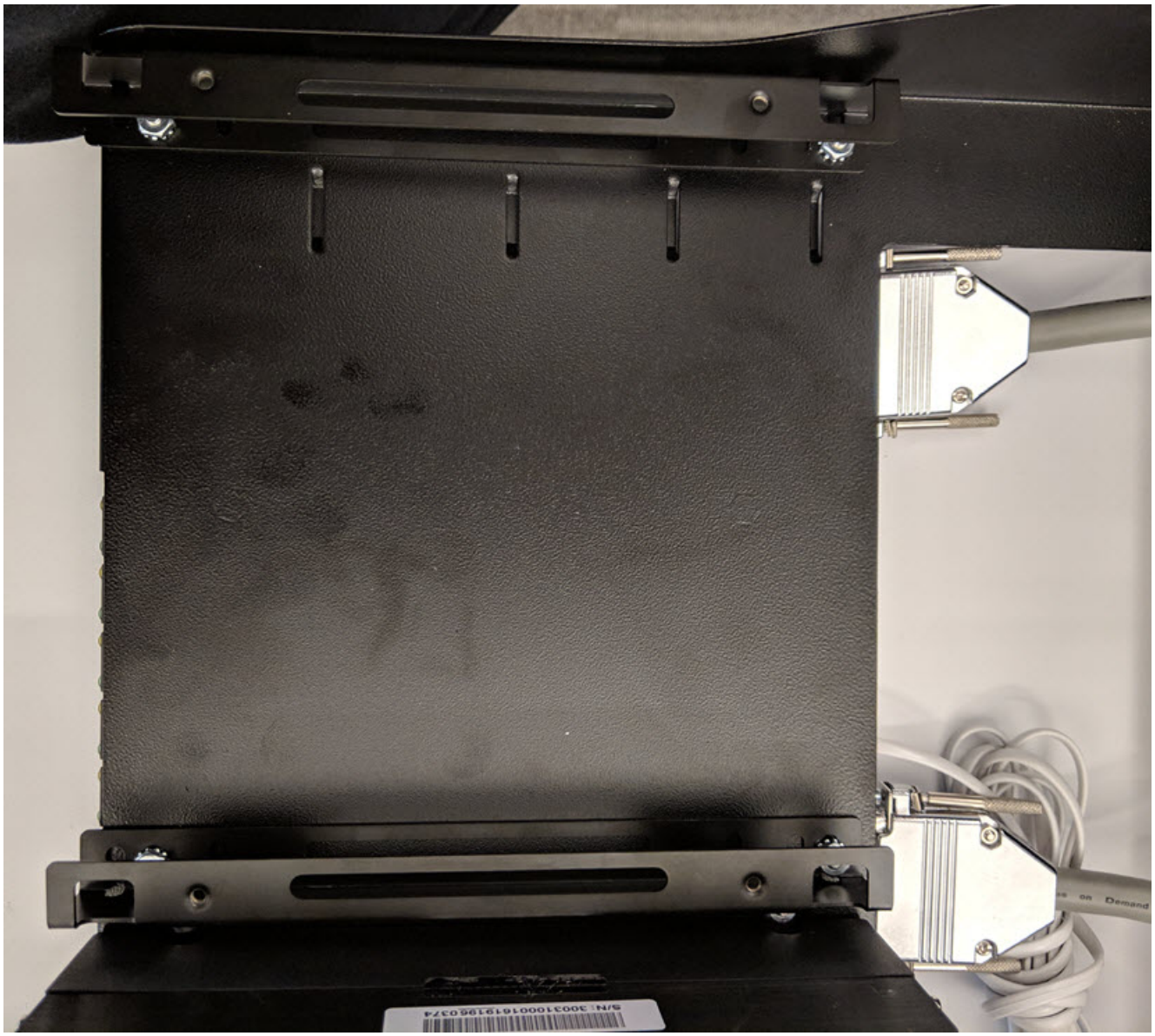
2. Place the riser bracket pieces as shown in the photo Position metal riser bracket pieces on page 21.
3. Install four screws found in your OS2 Upgrade Kit (two on either side) to attach the center piece to both side pieces. Use the screws with P/N 200244-008. See the photo Assembled metal riser bracket on page 22.

   The assembled metal riser bracket will be installed in the jukebox in the next procedure (see section 5.2.2 Installing the Universal Computer and I/O Board Upgrade Kit).
4. Locate the I/O to Backplane cable. See the photo I/O to Backplane cable on page 23.
5. Connect the end labeled “Backplane” to the backplane PCB (it should click into place). See the photo Connecting cable to backplane on page 23.
6. Place the computer onto the mounting bracket by lining up the posts with the holes on the back of the computer.
7. Secure the computer in place by fastening it with four screws provided in your OS2 Upgrade Kit. Use the screws with P/N 200244-008. See the photo Location of screws to secure the computer to the mounting bracket on page 24.
8. Place the I/O Board onto the mounting bracket and secure it by fastening it with two screws provided in your OS2 Upgrade Kit. Use the screws with P/N 200244-008.
9. Connect the other end of the I/O to Backplane cable to the I/O Board where it is marked “SQUID (MAIN)”. See the photo I/O to backplane cable connected to I/O Board on page 25.

5.2.2 Installing the Universal Computer and I/O Board Upgrade Kit

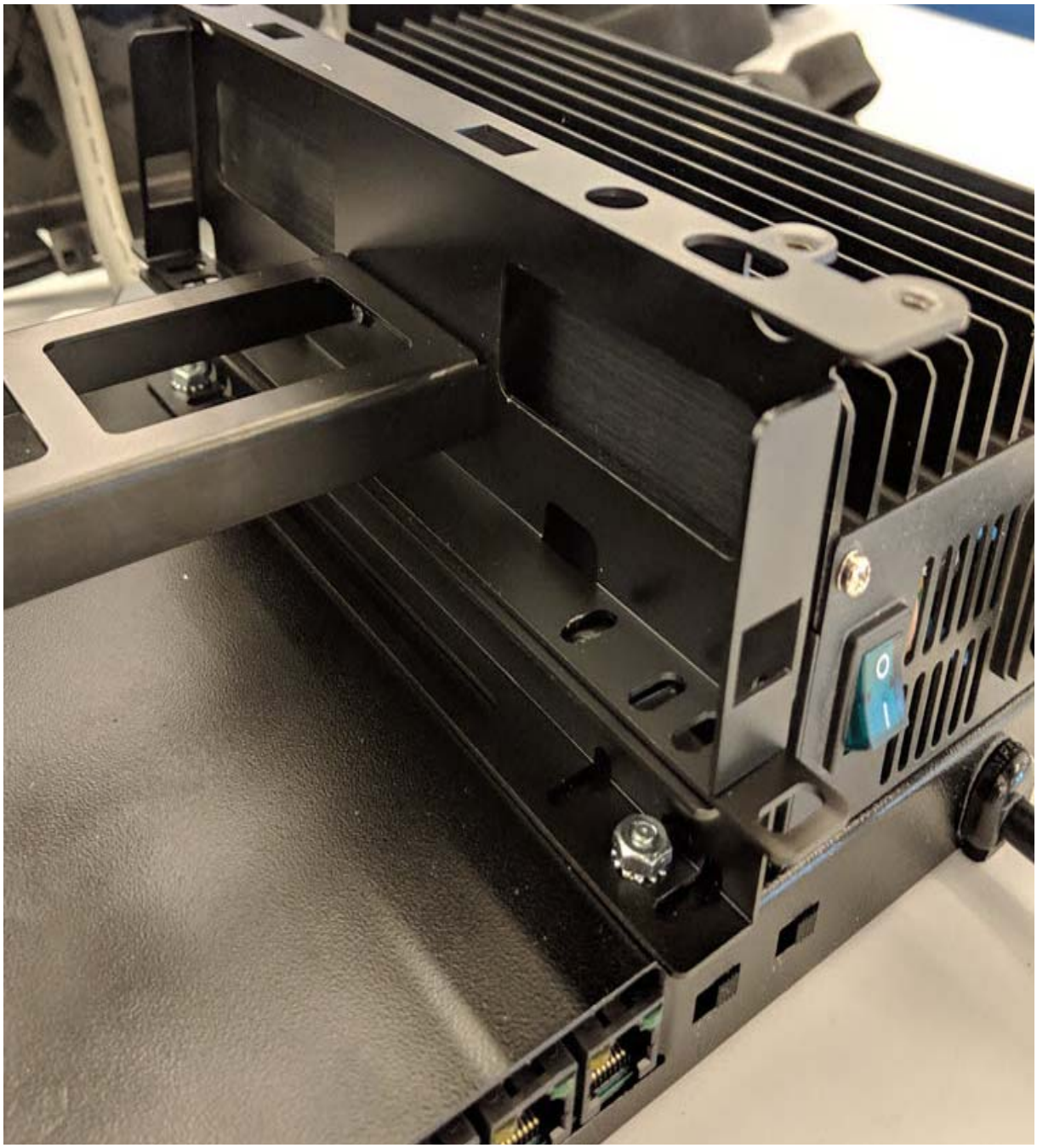
To install the Computer and I/O Board assembly:

1. Install the required two metal risers (P/N 401692-001) using the lug nuts removed earlier (as follows). Do not fully tighten the lug nuts until after you align the metal bracket in the next step.



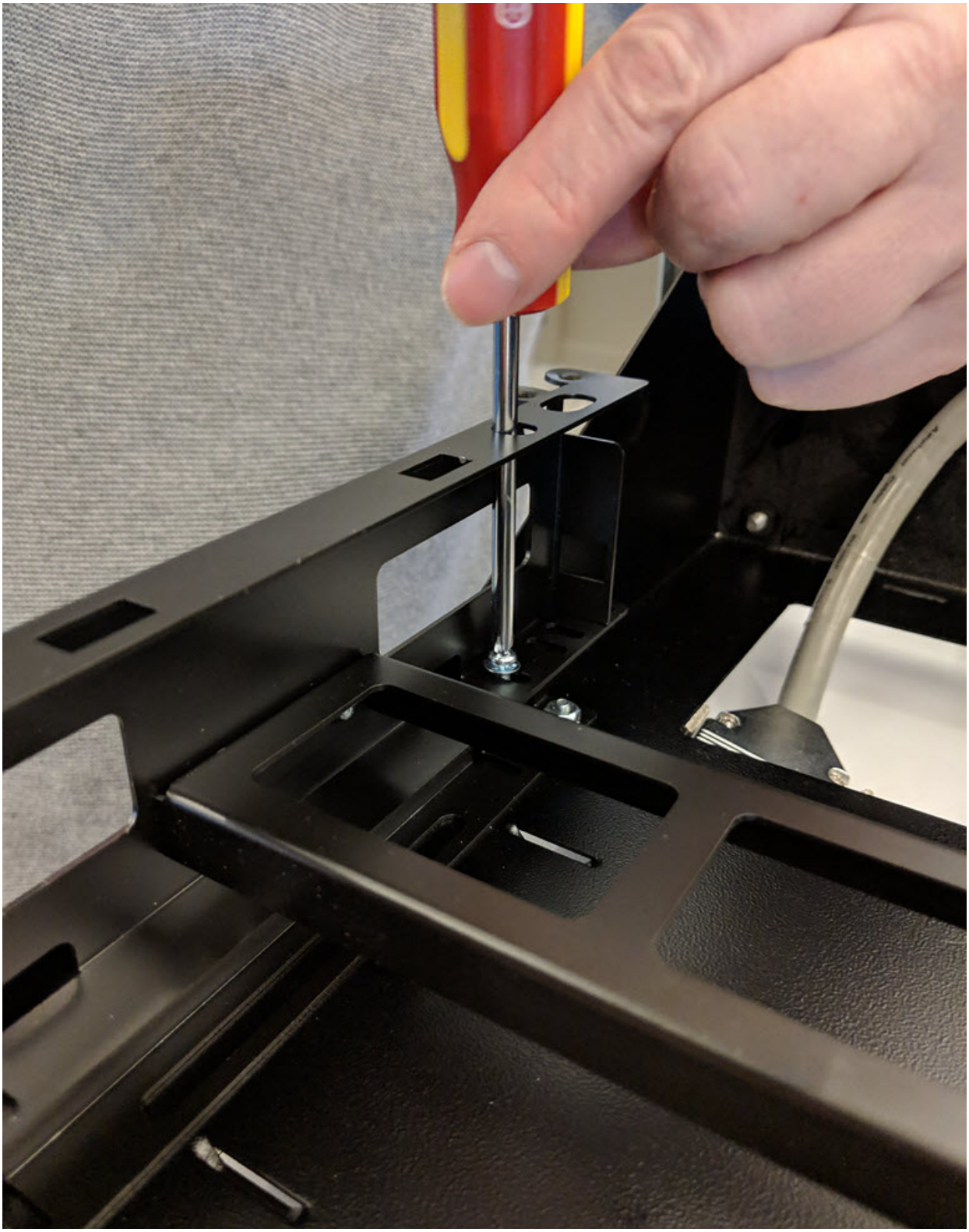
Two metal risers installed

2. Align the metal riser bracket with the two metal risers installed in the previous step and then tighten the lug nuts on the metal risers.



Aligning metal riser bracket with risers

3. Fasten four screws found in your OS2 Upgrade Kit to connect the metal riser bracket to the two metal risers. Use the screws with P/N 200244-008.



Fastening screws on metal riser bracket

4. Align the flange hooks on the assembled mounting bracket with the two rectangular holes on the metal riser bracket and then rest the assembled mounting bracket on the metal riser bracket.

Aligning flange hooks with the metal riser bracket holes

5. Fasten two screws to the top right and left of the assembled mounting bracket to secure it to the metal riser bracket. Use the screws with P/N 200244-008.

Fastening mounting bracket to metal riser bracket

NOTE	The new computer (P/N 301090-001) uses a SATA hard drive with a red tray. Do **not** attempt to swap out the OS2 hard drive with the hard drive from a different computer or from another TouchTunes jukebox as you can incur damage to the current jukebox. Note that the hard drive is shipped separately from your OS2 Upgrade Kit.

6. Install the new hard drive as follows:

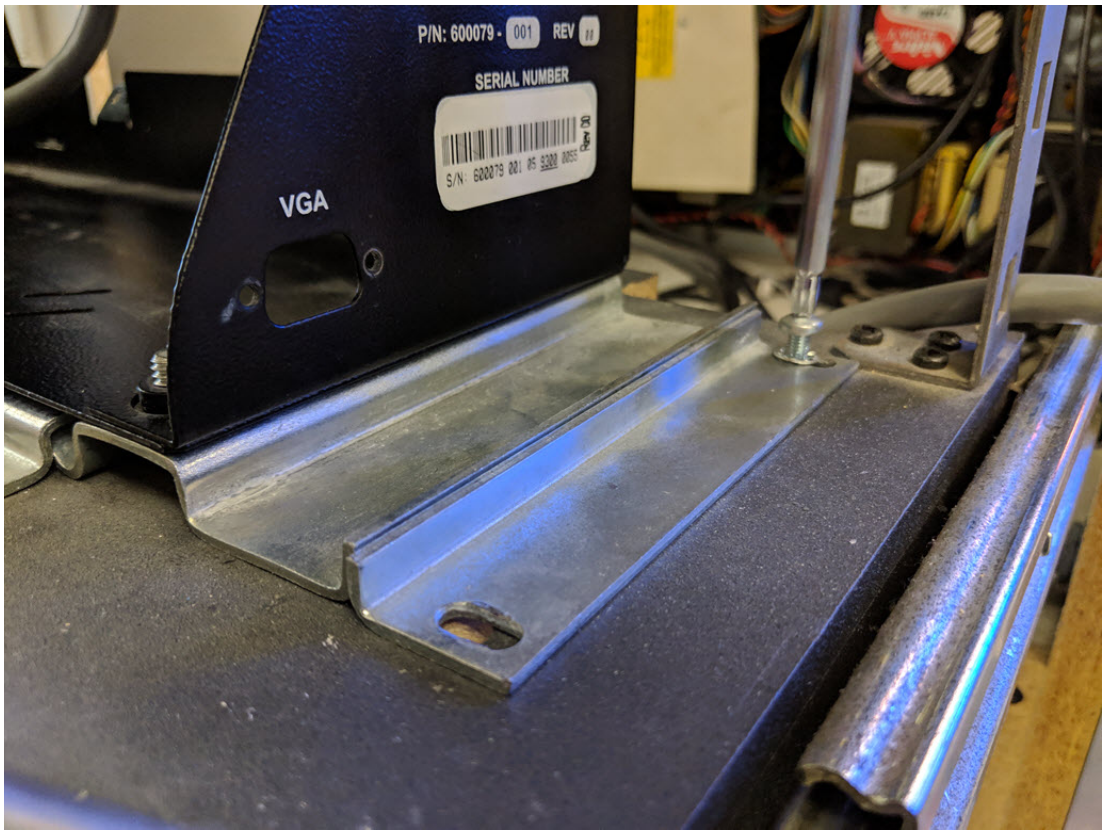
- Locate the hard drive for the new computer. The hard drive is contained in an enclosure. The hard drive and its enclosure are shipped separately from the OS2 Upgrade Kit. If the hard drive has not yet arrived at your location, contact TouchTunes.
- Align the hard drive enclosure with its slot on the left-side under-panel of the computer. The hard drive enclosure cannot be inserted in its slot until it is properly aligned.
- Insert the hard drive enclosure into the slot and then gently push the enclosure in until it is completely seated.
- Using your fingers, push in and then tighten the thumb screw (clockwise) on the hard drive tray until the thumb screw is **securely** tightened.

IMPORTANT: Using a screwdriver applies significantly more torque than hand-tightening. Do **not** over-tighten.

IMPORTANT: Do not, under any circumstances, attempt to force the wrong type of hard drive into the HD slot of the new computer. By doing so, you risk serious damage to the hard drive and the computer.

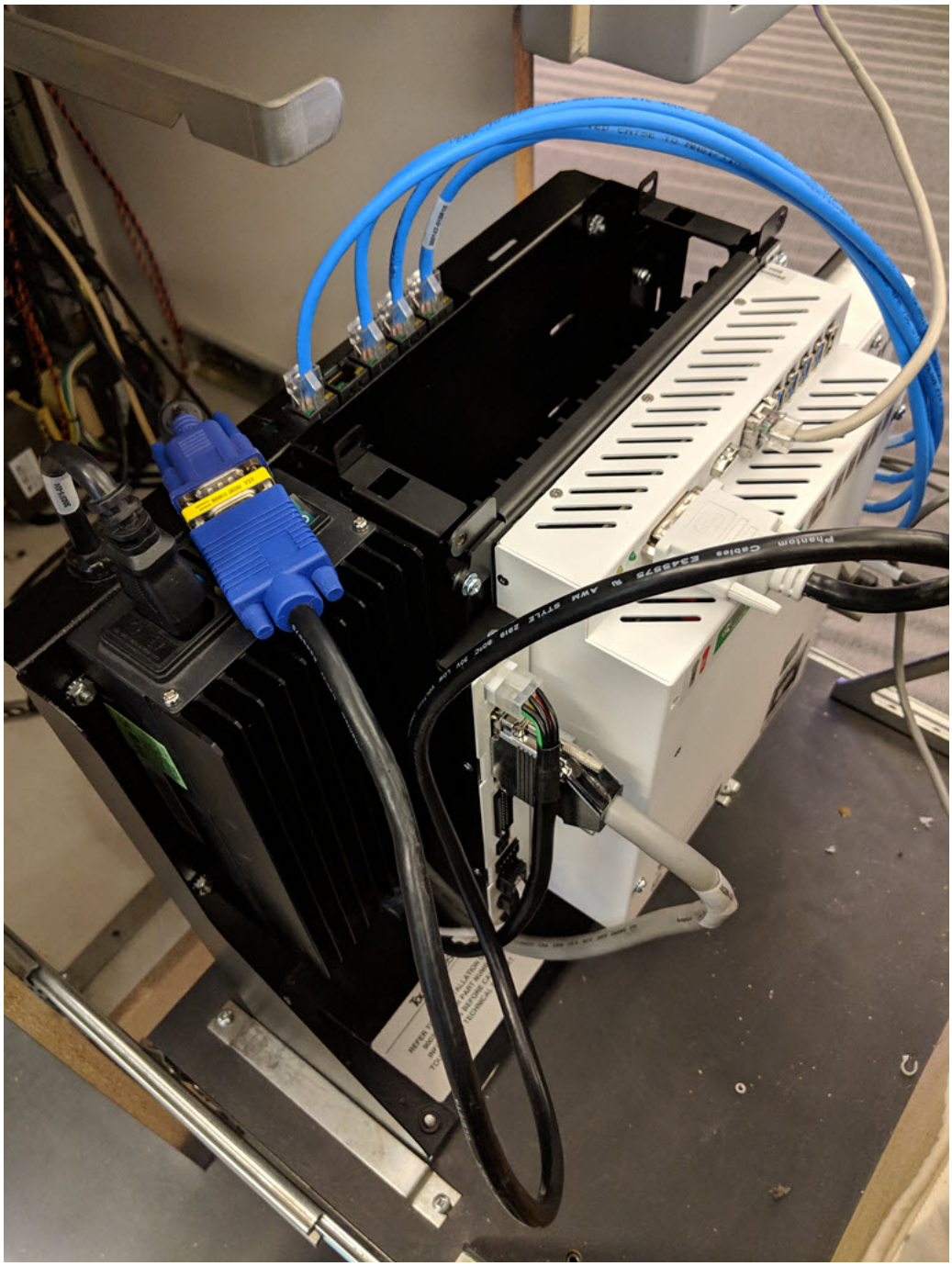
- Test whether the hard drive is firmly seated by pulling out firmly on the handle of the hard drive tray. The hard drive is secured properly when:
  - The thumb screw is completely compressed and covered by the cowl head of the thumbs screw, that is, the spring is not visible.
  - There is no gap between the edge of the hard drive tray and the computer.
  - There is no play between the hard drive and the computer when you pull outward on the handle of the hard drive tray. If you detect any play in the hard drive tray, using a slot-head screwdriver, tighten the thumb screw firmly into the computer and test again until no play is detected.

7. Place the assembled mounting bracket into the jukebox and secure it by fastening the 2 screws as follows.



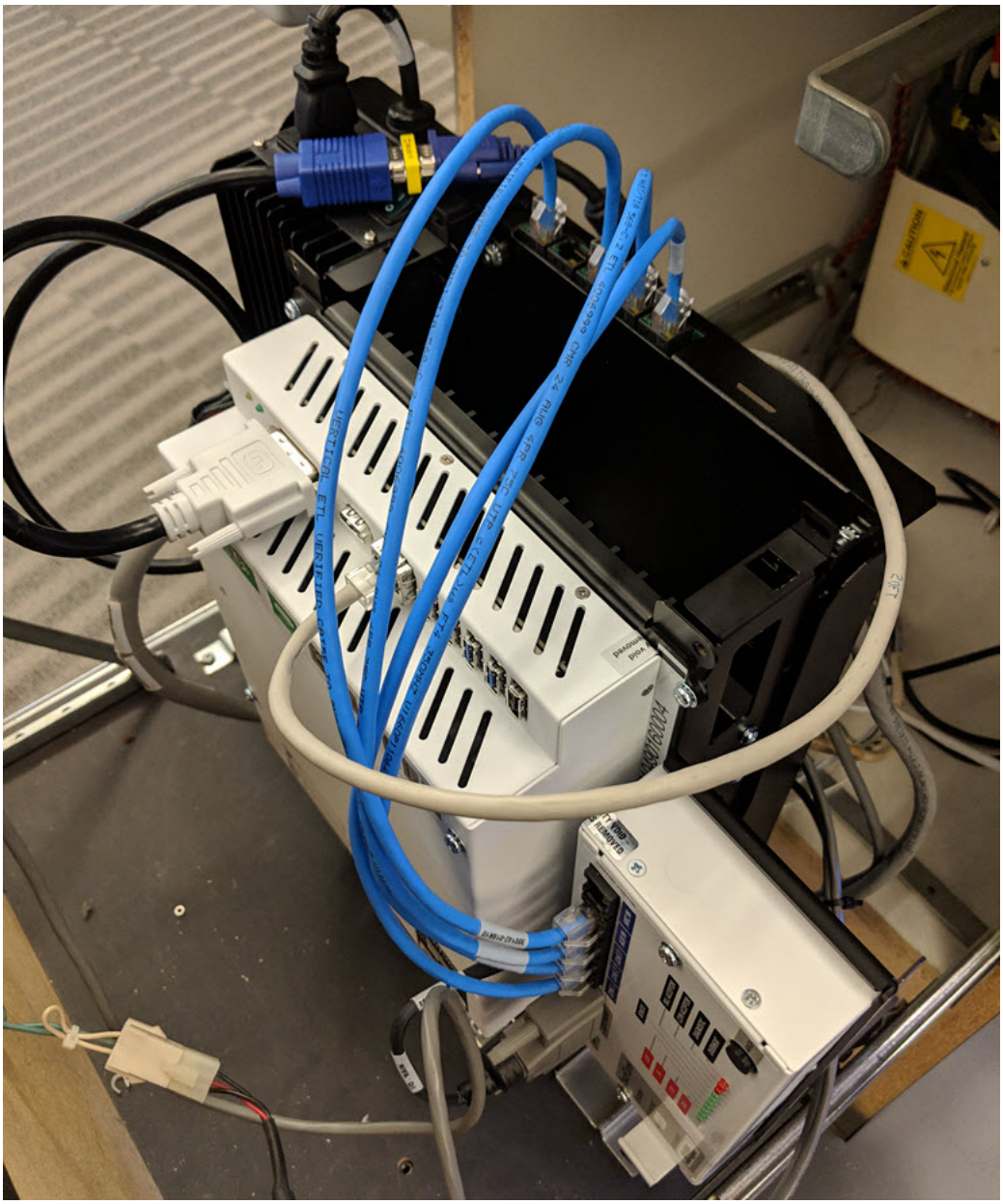
Secure mounting bracket to jukebox

8. Connect all connections removed from the old computer to the Computer and I/O Board as shown in the following 2 figures. All connections are labeled.



Connections between jukebox and the new computer

NOTE 1	The cables shown in the previous figure do not match the color or orientation of the cables provided in your kit. All cables are now black in color and the DVI-I to VGA cable is now right-angled.
NOTE 2	At the time the previous picture was taken, the computer had a black label. The most recent computer model has a green label. If your computer does not have a green label, then you received the wrong model.



Connections to the I/O Board

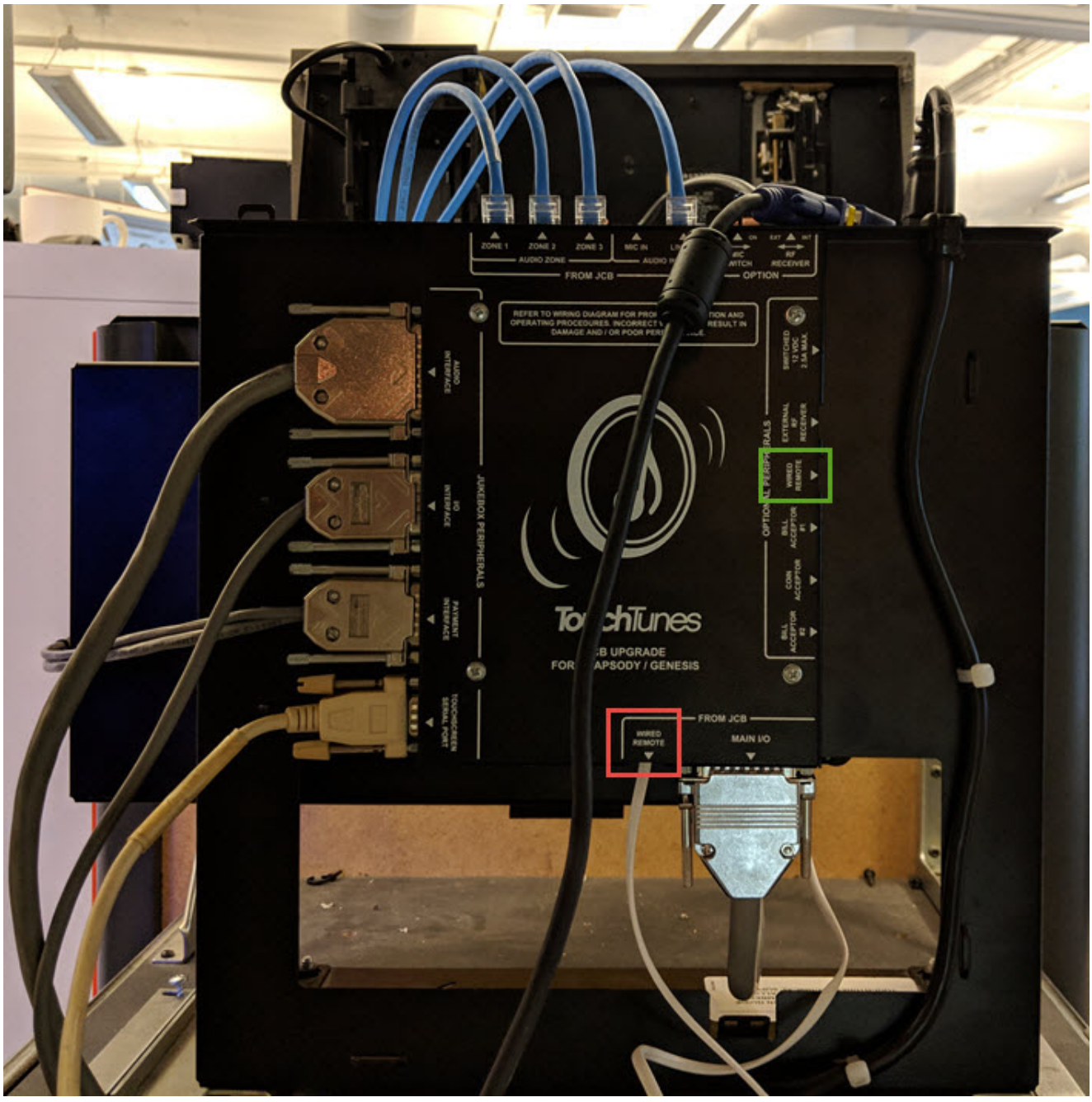
NOTE 1	The cables shown in the previous figure do not match the color or orientation of the cables provided in your kit. All cables are now black in color and the DVI-I to VGA cable is now right-angled.
NOTE 2	At the time the previous picture was taken, the computer had a black label. The most recent computer model has a green label. If your computer does not have a green label, then you received the wrong model.

9. Connect the end labeled “Monitor VGA” of the new video cable (P/N 301096-036) to the Female/Female video adapter (P/N 401704-001). The other end of this cable is plugged into the new computer (as shown in the previous figure).

Mini gender adapter for video cables

10. Connect the adapted end of the new video cable to the existing video cable (which goes to the jukebox monitor).

11. Reconnect the cables to the PC Interface module as follows. Note that all connections are labeled.



PC Interface module connections

NOTE 1	There are two connection points for the wired remote. One connection goes from the PC Interface module (highlighted in red in the previous figure) to the side of the computer assembly (labeled WR). The other connection goes from the PC Interface module (highlighted in green in the previous figure) to the wired remote itself.
NOTE 2	Note that the RJ cables shown in the previous figure are now black in color.

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6 Install OS2 Upgrade Kits in Ovation

This section provides the procedures that must be performed in order to complete the installation of the OS2 Upgrade Kits in an Ovation jukebox.

Topics

6.1 Removing the Computer

- 6.1.1 Removing an MJS-based Computer
- 6.1.2 Removing a JCB-based Computer

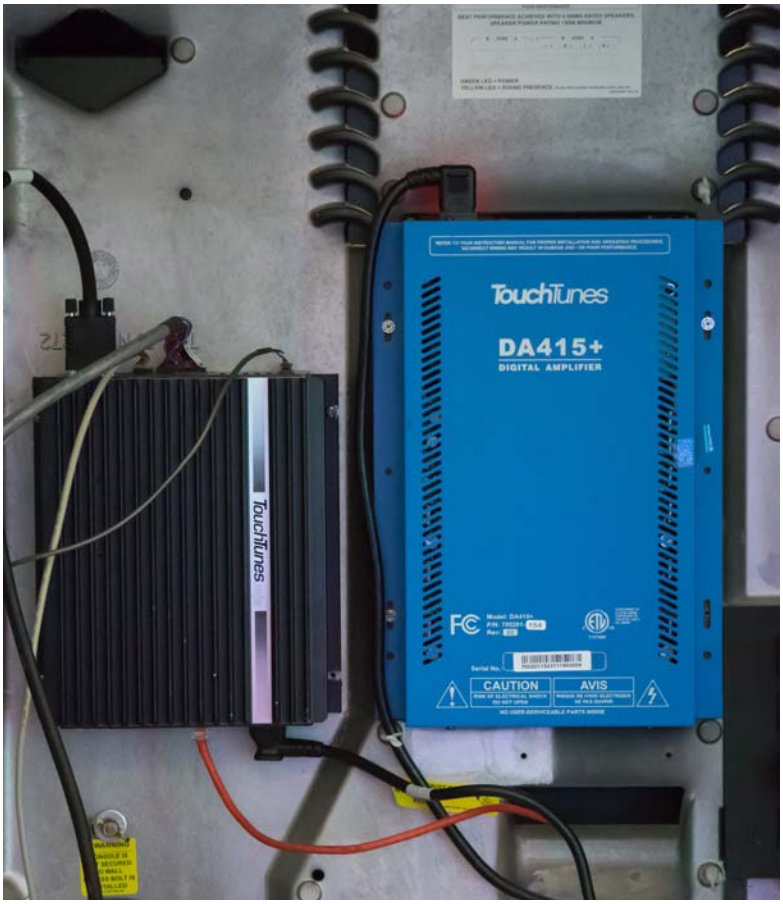
6.2 Installing New Components

- 6.2.1 Assembling the Universal Computer and I/O Board Upgrade Kit
- 6.2.2 Installing the Universal Computer and I/O Board Upgrade Kit
- 6.2.3 Assembling the Power Supply Unit Upgrade Kit
- 6.2.4 Installing the Power Supply Unit Upgrade Kit (where applicable)
- 6.2.5 Installing the New Hard Drive

6.1 Removing the Computer

To prepare your Ovation I jukebox for installation of the OS2 Upgrade Kits, you must remove one of the following computer models: MJS, JCB, JCB**+** for MJS, or JCB**+** for JCB.

The following shows an MJS computer connections on an Ovation I jukebox.



Computer connections on an Ovation I jukebox (MJS computer shown)

WARNING: To prevent risk of electrical shock, do not attempt any of the disassembly or reassembly procedures described herein without first disconnecting all electrical power to the jukebox.

6.1.1 Removing an MJS-based Computer

This procedure applies to a jukebox equipped with an MJS computer or a JCB**+** for MJS computer. If your jukebox has a JCB or a JCB**+** for JCB computer installed, skip to the next procedure in section 6.1.2 Removing a JCB-based Computer.

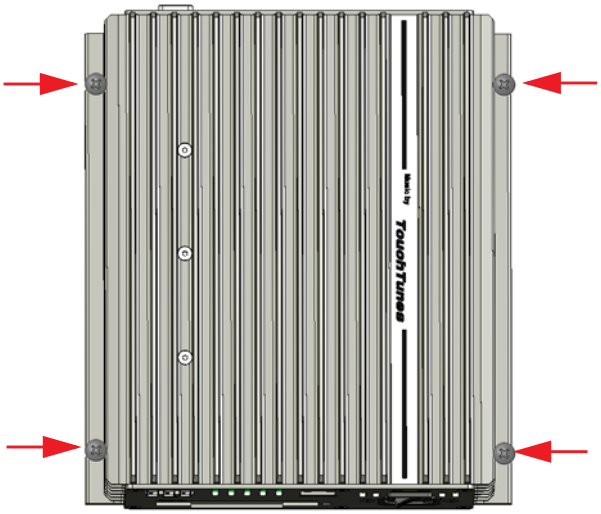
To remove an MJS-based computer:

1. Power off the jukebox.
2. Disconnect all electrical power to the jukebox.
3. Unlock and open the jukebox cabinet.

4. Disconnect the AC power cord from the power strip and from the AC inlet on the bottom panel of the MJS or the JCB**+** for MJS computer.

NOTE	Prior to performing the next step, it is recommended to use cable flags (or pieces of tape) to tag each cable that connects to the jukebox computer, indicating which socket it goes into on the computer. At a minimum, you should label all the Ethernet cables (network, Zones 1 to 3, MIC, AUX IN, and DMX) as these are very easy to mix up.

5. Disconnect all cabling connected to the MJS or JCB**+** for MJS computer.
6. Using a cross-head screwdriver, unfasten the four screws that secure the MJS or the JCB**+** for MJS computer to the cabinet (hold the computer in place while removing the last two screws to prevent it from falling). The four screws on a JCB**+** for MJS computer are in the same location as on an MJS computer.



Location of MJS computer mounting screws

7. Remove the computer from the jukebox and set it aside.

6.1.2 Removing a JCB-based Computer

This procedure applies to an Ovation I jukebox equipped with a JCB or JCB**+** for JCB computer.

WARNING: To prevent risk of electrical shock when performing the following procedure or any other maintenance on your jukebox, the jukebox must be powered off and its electrical power disconnected.

To remove a JCB computer:

1. Power off the jukebox.
2. Disconnect all electrical power to the jukebox.
3. Unlock and open the jukebox front door.
4. Disconnect the AC power cord from the power strip and from the AC inlet on the bottom panel of the computer.

NOTE	Prior to performing the next step, it is recommended to use cable flags (or pieces of tape) to tag each cable that connects to the existing jukebox computer, indicating which socket it goes into on the computer. At a minimum, you should label all Ethernet cables (network, Zones 1 to 3, MIC IN, AUX IN, and DMX) as these are very easy to mix up.

5. Disconnect all cables from the computer.

NOTE	Connector locations are slightly different on a JCB+ for JCB computer. However, all connectors are labeled.

6. Find the four screws that hold the computer in place and remove each one (hold the computer in place while removing the last two screws to prevent it from falling).

Remove the screws from the JCB computer

7. Remove the computer from the jukebox and set it aside.

6.2 Installing New Components

6.2.1 Assembling the Universal Computer and I/O Board Upgrade Kit

1. Unpack the Upgrade Kit components. For photos of the components, see the following figures:
   - Metal riser bracket pieces on page 17
   - Mounting bracket for Computer and I/O Board on page 18
   - Universal computer on page 19
   - I/O Board on page 20
   - Upgrade Kit cables (RJ cables not shown) on page 20

IMPORTANT NOTE	The new computer (P/N 301090-001) is marked with a green label to indicate it is “universal”. If the P/N and label of the computer you receive do not match, then you have not received the correct model.

2. Place the riser bracket pieces as shown in the photo Position metal riser bracket pieces on page 21.
3. Install four screws found in your OS2 Upgrade Kit (two on either side) to attach the center piece to both side pieces. Use the screws with P/N 200244-008. See the photo Assembled metal riser bracket on page 22.

   The assembled metal riser bracket will be installed in the jukebox in the next procedure (see section 6.2.2 Installing the Universal Computer and I/O Board Upgrade Kit).
4. Locate the I/O to Backplane cable. See the photo I/O to Backplane cable on page 23.
5. Connect the end labeled “Backplane” to the backplane PCB (it should click into place). See the photo Connecting cable to backplane on page 23.
6. Place the computer onto the mounting bracket by lining up the posts with the holes on the back of the computer.
7. Secure the computer in place by fastening it with four screws found in your OS2 Upgrade Kit. Use the screws with P/N 200244-008. See the photo Location of screws to secure the computer to the mounting bracket on page 24.
8. Place the I/O Board onto the mounting bracket and secure it by fastening it with two screws found in your OS2 Upgrade Kit. Use the screws with P/N 200244-008.
9. Connect the other end of the I/O to Backplane cable to the I/O Board where it is marked “SQUID (MAIN)”. See the photo I/O to backplane cable connected to I/O Board on page 25.

6.2.2 Installing the Universal Computer and I/O Board Upgrade Kit

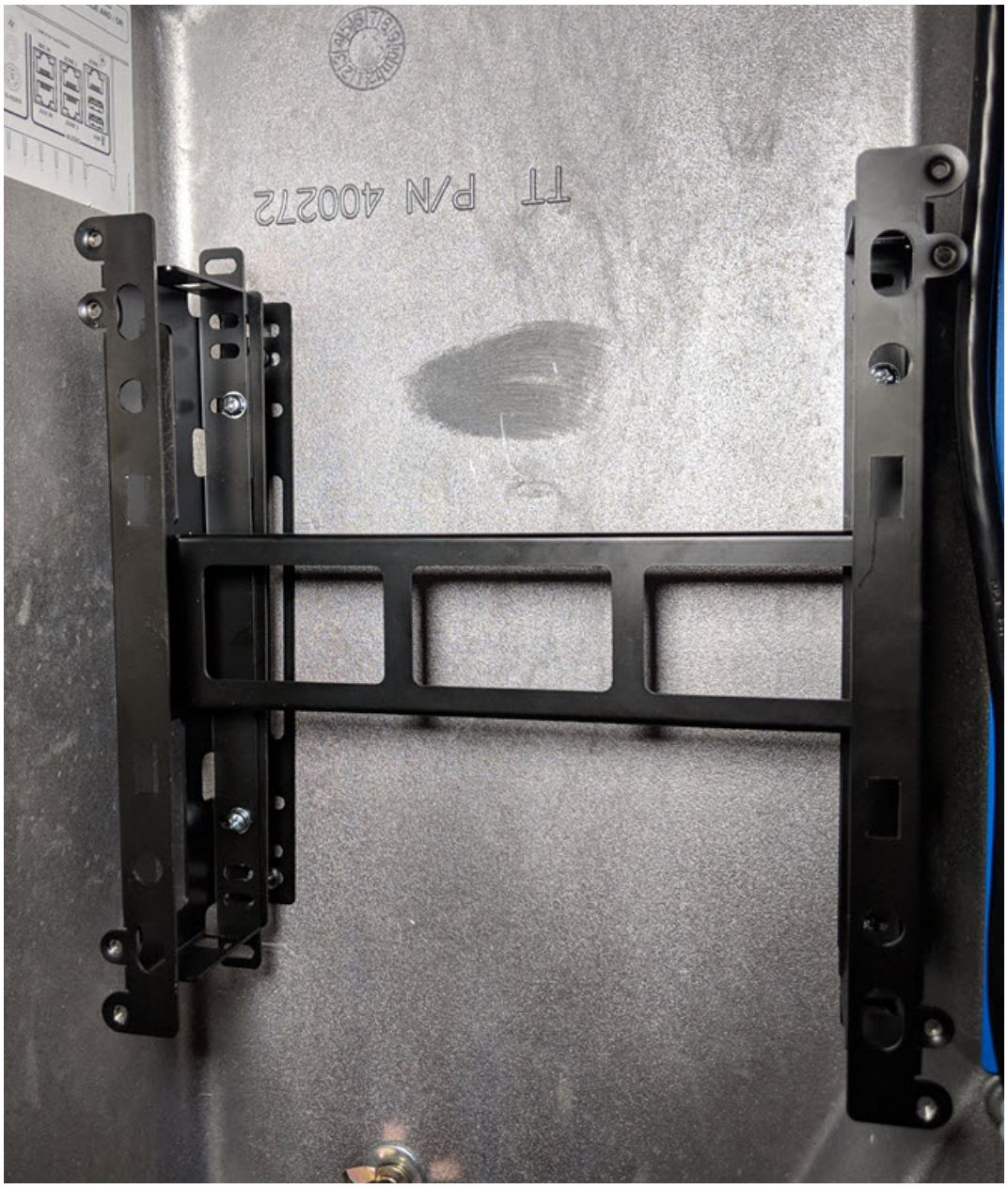
NOTE	If you are replacing an MJS computer or a JCB**+** for MJS computer, you must also install the Power Supply Unit Upgrade Kit onto the Computer and I/O Board bracket before you can perform the following procedure. Go to section 6.2.3 Assembling the Power Supply Unit Upgrade Kit.

To install the Computer-I/O Board assembly:

1. Install the two required metal risers (P/N 401692-001) as follows. Use the screws with P/N 200244-008.

Metal risers installed

2. Install the metal riser bracket by fastening four screws found in your OS2 Upgrade Kit. Use the screws with P/N 200244-008. The following shows the riser bracket installed in an Ovation I jukebox.



Riser bracket installed in Ovation I

3. Align the flange hooks on the assembled mounting bracket with the two rectangular holes on the riser bracket and then rest the assembled mounting bracket on the riser bracket.

4. Fasten two screws to the top right and left of the assembled mounting bracket to secure it to the riser bracket. Use the screws with P/N 200244-008.

Fasten assembled mounting bracket to the riser bracket

5. If you are replacing an MJS or JCB**+** for MJS computer, the power cable is extended by the new cable provided in your Power Supply Unit Upgrade Kit (which is connected to the Power Supply Unit mounting bracket in the procedure in section 6.2.3 Assembling the Power Supply Unit Upgrade Kit).

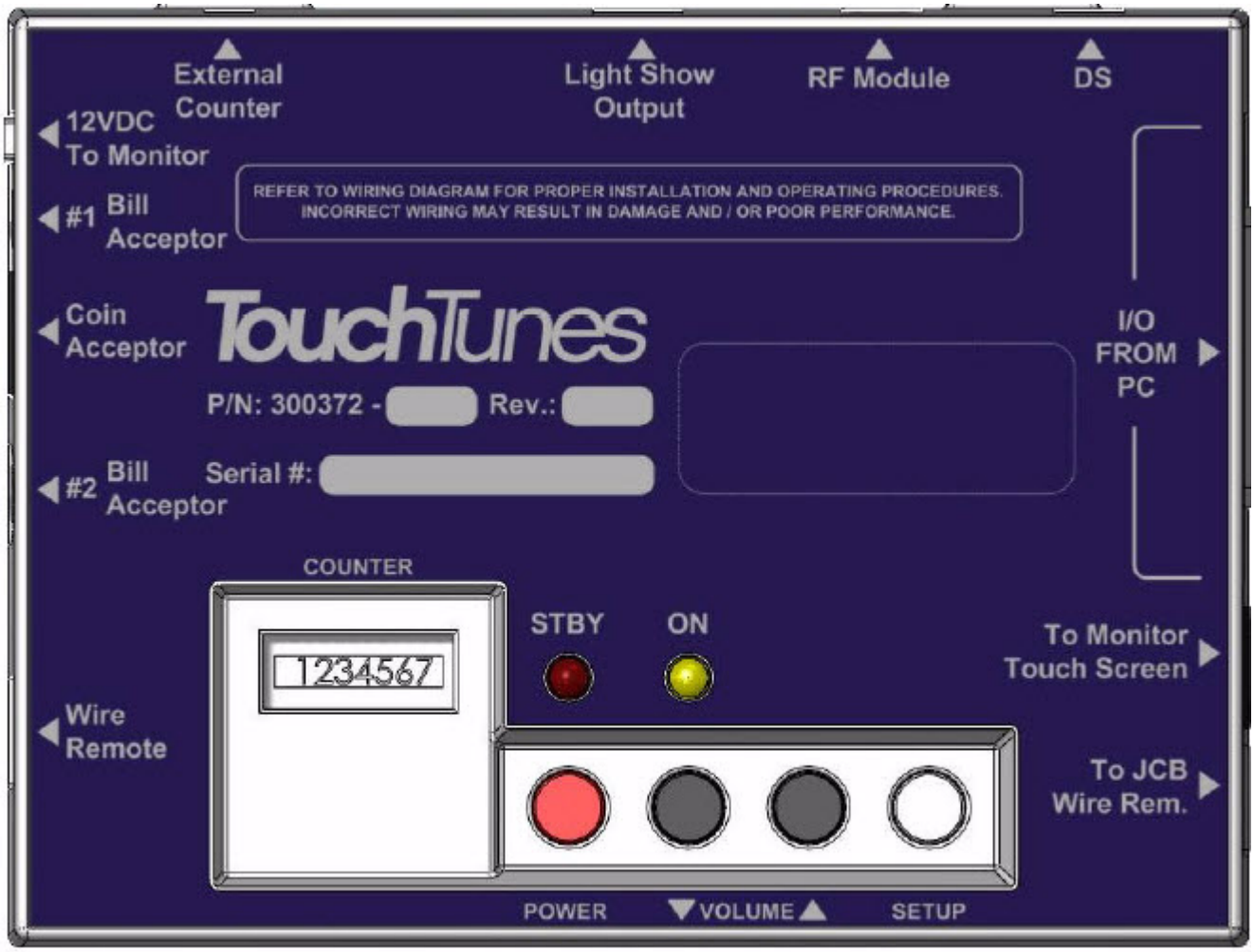
6. Connect all connections removed from the old computer to the new computer and I/O Board. All connections are labeled. Note that the connection from the PSU and the connections labeled with MJS are not installed for JCB replacements. The connection labeled JCB I/O is not used for MJS replacements.

Side connections on Ovation I installation (where WR is for the wired remote)

Front connections on Ovation I installation for MJS replacement (the PSU is not installed for JCB replacements)

NOTE 1	At the time the previous picture was taken, the computer had a black label. The most recent computer model (P/N 301090-001) has a green label. If your computer does not have a green label, then you received the wrong model.
NOTE 2	The cables shown in the previous figure do not match the color or orientation of the cables provided in your kit. All cables are now black in color and the DVI-I to VGA cable is now right-angled.

7. For JCB replacements, connect the I/O cable from the control board (shown below) to the connection point on the side of the backplane labeled “JCB I/O”.



Control board (for JCB replacements)

NOTE	Following installation of the OS2 upgrade kit for JCB replacements, the buttons on the control board (shown above) no longer function. Use the MNGR button on the I/O Board instead of the SETUP button. Use the power button and volume controls on the wired remote located at the back of the jukebox instead of the POWER and VOLUME control buttons on the control board. To continue using the Power and volume control buttons, you must apply the following connections using an RJ11 6 pin cable (which is not contained in your kit and must be **acquired separately**). • Plug the existing RJ11 4 pin wired remote cable into the control board where labeled “Wire Remote”. • Plug one end of the newly acquired RJ11 6 pin cable into the control board where labeled “To JCB Wire Rem.”. • Plug the other end of the RJ11 6 pin cable into the side of the OS2 backplane where labeled “WR”.

8. Connect the end labeled “Monitor VGA” of the new video cable (P/N 301096-036) to the Female/Female video adapter (P/N 401704-001). The other end of this cable (labeled “Computer DVI”) is plugged into the new computer.

Mini gender adapter for video cables

9. Connect the adapted end of the new video cable to the existing video cable (which goes to the jukebox monitor).
10. Connect one end of the AC power cord to the Power Supply Unit and the other end to the power supply (**for MJS replacement only**). This cable (P/N 301099-036) is found in the Power Supply Unit Upgrade Kit (which is assembled in the procedure in section 6.2.3 Assembling the Power Supply Unit Upgrade Kit).

6.2.3 Assembling the Power Supply Unit Upgrade Kit

This procedure only applies when replacing an MJS computer or a JCB**+** for MJS computer. It is not applicable when replacing a JCB or JCB**+** for JCB computer.

1. Unpack the Power Supply Unit (PSU) mounting bracket. See the photo Power Supply Unit mounting bracket on page 48.
2. Unpack the Power Supply Unit.
3. Place the Power Supply Unit on the mounting bracket aligning the 4 metal studs with holes on the back of the Power Supply Unit and ensuring the larger connector aligns with the corresponding connector on the PCB (the holes and connector are highlighted in red in the figure Back of Power Supply Unit on page 49).
4. Attach the Power Supply Unit to the mounting bracket using the screws (P/N 200244-008) from your Power Supply Unit Upgrade Kit (P/N 600304-001). See the photo Location of screws on Power Supply Unit on page 50.
5 Flip the assembly over and connect the extension cable from your OS2 Upgrade Kit (P/N 301095-014) as shown in the photo Back of Power Supply Unit mounting bracket assembly on page 51.
   - Route the other end of this cable down and through the side of the metal riser bracket once the assembled Power Supply Unit mounting bracket is installed on the Computer-I/O Board mounting bracket.
6. Align the flange hooks at the bottom of the assembled Power Supply Unit mounting bracket with the slots located on the top of the assembled computer and I/O Board mounting bracket. See the photo Align flange hooks onto assembled computer and I/O Board mounting bracket on page 52.
7. Ensure that the 2 clearance holes on the assembled Power Supply Unit mounting bracket are aligned over the threaded holes on the assembled computer and I/O Board mounting bracket. See the photo Aligning mounting bracket holes for screws on page 53.
8. Fasten the assembled Power Supply Unit mounting bracket to the computer and I/O Board mounting bracket using two screws (P/N 200244-008) found in your Universal Computer and I/O Board Upgrade Kit (P/N 600303-001).

9. Connect the other end of the power supply extension cable (P/N 301095-014) initially connected in step 5 to the side of the assembled mounting bracket (where it is labeled “FROM PSU”). See the photo PSU cable connection on mounting bracket on page 54.

6.2.4 Installing the Power Supply Unit Upgrade Kit (where applicable)

To complete the combined Computer-I/O Board-Power Supply Unit mounting bracket installation on the jukebox, go to section 6.2.2 Installing the Universal Computer and I/O Board Upgrade Kit.

6.2.5 Installing the New Hard Drive

NOTE	The new computer uses a SATA hard drive with a red tray. Do **not** attempt to swap the hard drive with an IDE drive from another TouchTunes jukebox model as you can damage the jukebox.

To install the hard drive:

1. Unlock and open the jukebox.
2. Ground yourself by touching an exposed piece of metal in the jukebox case.
3. Ensure that the computer is powered OFF at the switch on the power supply.
4. Locate the hard drive for OS2. The OS2 hard drive is contained in an enclosure. The hard drive and its enclosure are shipped separately from the OS2 Upgrade Kits. If the hard drive has not yet arrived at your location, contact TouchTunes.
5. Align the hard drive enclosure with its slot on the left-side under-panel of the computer. The hard drive enclosure cannot be inserted in its slot until it is properly aligned.
6. Insert the hard drive enclosure into the slot and then gently push the enclosure in until it is completely seated.
7. Using your fingers, push in and then tighten the thumb screw (clockwise) on the hard drive tray until the thumb screw is **securely** tightened.

IMPORTANT: Using a screwdriver applies significantly more torque than hand-tightening. Do **not** over-tighten.

IMPORTANT: Do not, under any circumstances, attempt to force the wrong type of hard drive into the HD slot of the new computer. By doing so, you risk serious damage to the hard drive and the computer.

8. Test whether the hard drive is firmly seated by pulling out firmly on the handle of the hard drive tray. The hard drive is secured properly when:
   - The thumb screw is completely compressed and covered by the cowl head of the thumbs screw, that is, the spring is not visible.
   - There is no gap between the edge of the hard drive tray and the computer.
   - There is no play between the hard drive and the computer when you pull outward on the handle of the hard drive tray. If you detect any play in the hard drive tray, using a slot-head screwdriver, tighten the thumb screw firmly into the computer and test again until no play is detected.

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7

Install OS2 Upgrade Kit in Ovation II

This section provides the procedures that must be performed in order to complete the installation of the OS2 Upgrade Kit in an Ovation II jukebox.

Topics

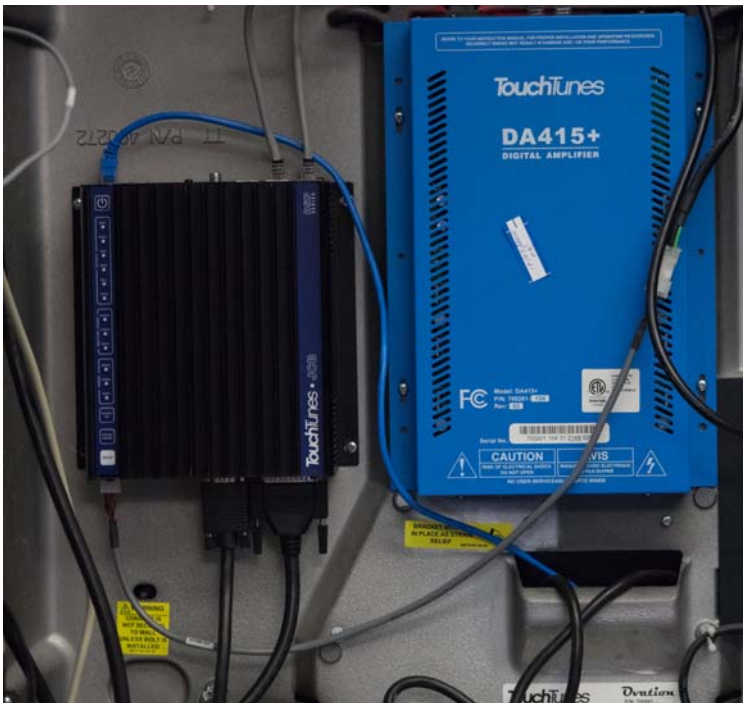
7.1 Removing JCB or JCB+ for JCB Computer

7.2 Installing New Components

- 7.2.1 Assembling the Universal Computer and I/O Board Upgrade Kit
- 7.2.2 Installing the Universal Computer and I/O Board Upgrade Kit
- 7.2.3 Installing the New Hard Drive

7.1 Removing JCB or JCB+ for JCB Computer

To prepare your jukebox for installation of the OS2 Upgrade Kit, you must disconnect and remove the existing computer (JCB or JCB**+** where applicable). The following shows the location of the computer in an Ovation II jukebox.



Location of computer and its connections in Ovation II jukebox (JCB computer shown)

This procedure applies to a jukebox equipped with a JCB or JCB**+** for JCB computer.

WARNING: To prevent risk of electrical shock when performing the following procedure or any other maintenance on your jukebox, the jukebox must be powered off and its electrical power disconnected.

To remove the computer:

1. Unlock and open the jukebox front drawer.
2. Power off the jukebox.
3. Disconnect all electrical power to the jukebox.

NOTE	Prior to performing the next step, it is recommended to use cable flags (or pieces of tape) to tag each cable that connects to the jukebox computer, indicating which socket it goes into on the computer. At a minimum, you should label all the Ethernet cables (network, Zones 1 to 3, MIC, AUX IN, and DMX) as these are very easy to mix up.

4. Disconnect all the cables connected to the computer.

Connections to remove from top of the JCB computer (example)

Connections to remove from bottom of the JCB computer (example)

5. Find the four screws that hold the computer in place and remove each one (hold the computer in place while removing the last two screws to prevent it from falling).

Remove the screws from the JCB

6. Remove the JCB computer and set it aside.

7.2 Installing New Components

7.2.1 Assembling the Universal Computer and I/O Board Upgrade Kit

1. Unpack the Upgrade Kit components. For photos of the components, see the following figures:
   - Metal riser bracket pieces on page 17
   - Mounting bracket for Computer and I/O Board on page 18
   - Universal computer on page 19
   - I/O Board on page 20
   - Upgrade Kit cables (RJ cables not shown) on page 20

IMPORTANT NOTE	The new computer (P/N 301090-001) is marked with a green label to indicate it is “universal”. If the P/N and label of the computer you receive does not match with that shown in the previous figure, then you have not received the correct model.

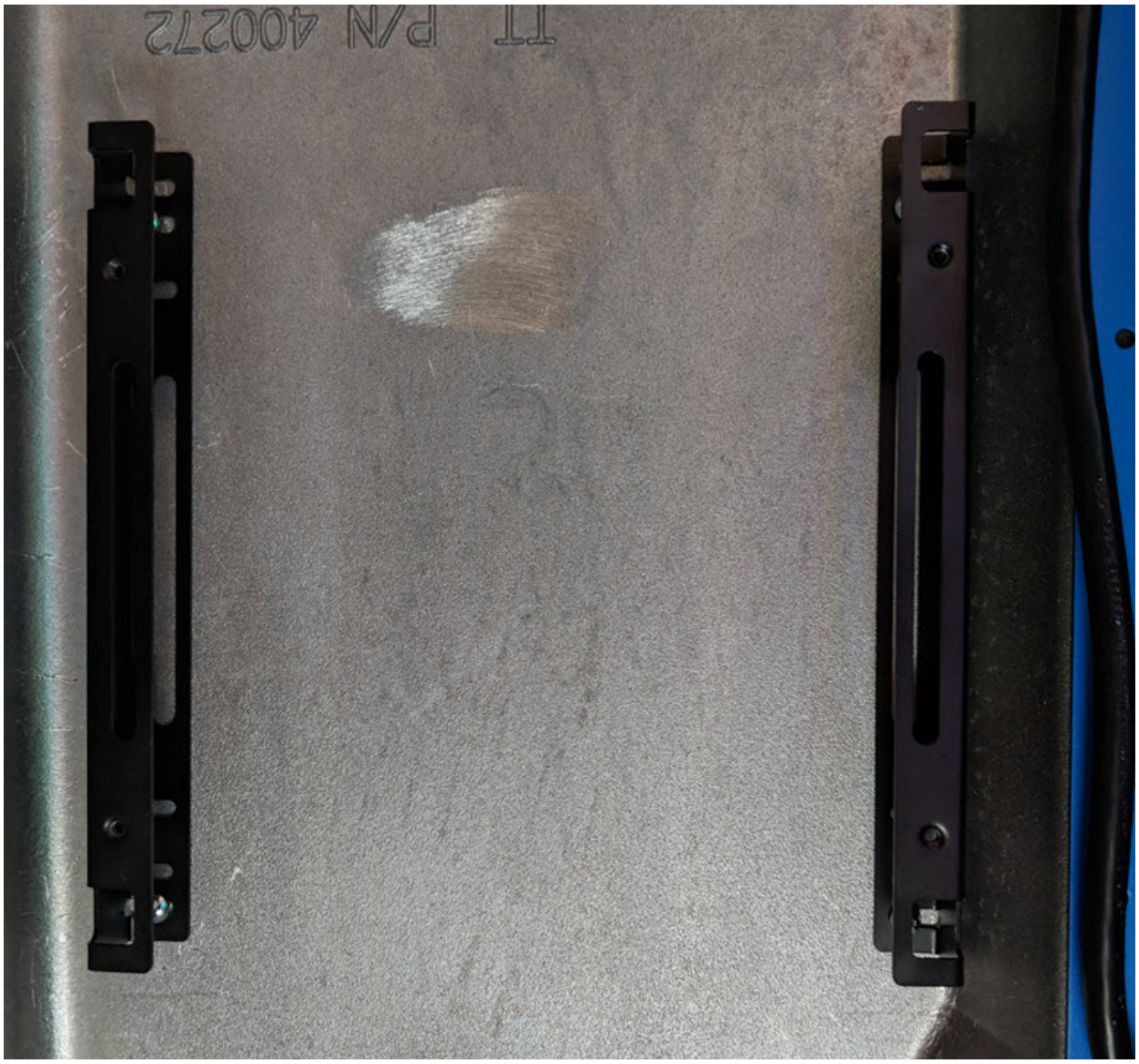
2. Place the riser bracket pieces as shown in the photo Position metal riser bracket pieces on page 21.
3. Install four screws found in your OS2 Upgrade Kit (two on either side) to attach the center piece to both side pieces. Use the screws with P/N 200244-008. See the photo Assembled metal riser bracket on page 22.

   The assembled metal riser bracket will be installed in the jukebox in the next procedure (see section 7.2.2 Installing the Universal Computer and I/O Board Upgrade Kit).
4. Locate the I/O to Backplane cable. See the photo I/O to Backplane cable on page 23.
5. Connect the end labeled “Backplane” to the backplane PCB (it should click into place). See the photo Connecting cable to backplane on page 23.
6. Place the computer onto the mounting bracket by lining up the posts with the holes on the back of the computer.
7. Secure the computer in place by fastening it with four screws found in your OS2 Upgrade Kit. Use the screws with P/N 200244-008. See the photo Location of screws to secure the computer to the mounting bracket on page 24.
8. Place the I/O Board onto the mounting bracket and secure it by fastening it with two screws found in your OS2 Upgrade Kit. Use the screws with P/N 200244-008.
9. Connect the other end of the I/O to Backplane cable to the I/O Board where it is marked “SQUID (MAIN)”. See the photo I/O to backplane cable connected to I/O Board on page 25.

7.2.2 Installing the Universal Computer and I/O Board Upgrade Kit

To install the Computer and I/O Board assembly:

1. Install the two required metal risers (PN 401692-001) as follows. Use the screws with P/N 200244-008.



Metal risers installed

2. Install the metal riser bracket by fastening four screws found in your OS2 Upgrade Kit as follows. Use the screws with P/N 200244-008.

Installing metal riser bracket

3. Align the flange hooks on the assembled mounting bracket with the two rectangular holes on the metal riser bracket and then rest the assembled mounting bracket on the riser bracket.

4. Fasten two screws to the top right and left of the assembled mounting bracket to secure it to the metal riser bracket. Use the screws with P/N 200244-008.

Fastening mounting bracket to riser bracket

5. Connect all connections removed from the old computer to the Universal Computer and I/O Board. All connections are labeled. Note that the connections labeled with MJS are not used for JCB replacements.

Connections on the side of computer-I/O Board assembly

Front connections

NOTE 1	The new computer (P/N 301090-001) is marked with a green label to indicate it is “universal”. If your computer does not have a green label, then you received the wrong model.
NOTE 2	Not all cables shown in the previous figure match the color or orientation of the cables provided in your kit. All cables are now black in color and the DVI-I to VGA cable is now right-angled.

6. Connect the end labeled “Monitor VGA” of the new video cable (P/N 301096-036) to the Female/Female video adapter (P/N 401704-001). The other end of this cable is plugged into the new computer (at DVI MON).

Mini gender adapter for video cables

7. Connect the adapted end of the new video cable to the existing video cable (which goes to the jukebox monitor).

7.2.3 Installing the New Hard Drive

NOTE	The new computer (P/N 301090-001) uses a SATA hard drive with a red tray. Do **not** attempt to swap out the OS2 hard drive with the hard drive from a different computer or from another TouchTunes jukebox as you can incur damage to the current jukebox. Note that the hard drive is shipped separately from your OS2 Upgrade Kit.

To install the hard drive:

1. Unlock and open the jukebox.
2. Ground yourself by touching an exposed piece of metal in the jukebox case.
3. Ensure that the computer is powered OFF at the switch on the power supply.
4. Locate the hard drive for the new computer. The hard drive is contained in an enclosure. The hard drive and its enclosure are shipped separately from the OS2 Upgrade Kit. If the hard drive has not yet arrived at your location, contact TouchTunes.
5. Align the hard drive enclosure with its slot on the left-side under-panel of the computer. The hard drive enclosure cannot be inserted in its slot until it is properly aligned.
6. Insert the hard drive enclosure into the slot and then gently push the enclosure in until it is completely seated.
7. Using your fingers, push in and then tighten the thumb screw (clockwise) on the hard drive tray until the thumb screw is **securely** tightened.

IMPORTANT: Using a screwdriver applies significantly more torque than hand-tightening. Do **not** over-tighten.

IMPORTANT: Do not, under any circumstances, attempt to force the wrong type of hard drive into the HD slot of the new computer. By doing so, you risk serious damage to the hard drive and the computer.

8. Test whether the hard drive is firmly seated by pulling out firmly on the handle of the hard drive tray. The hard drive is secured properly when:
   - The thumb screw is completely compressed and covered by the cowl head of the thumbs screw, that is, the spring is not visible.
   - There is no gap between the edge of the hard drive tray and the computer.
   - There is no play between the hard drive and the computer when you pull outward on the handle of the hard drive tray. If you detect any play in the hard drive tray, using a slot-head screwdriver, tighten the thumb screw firmly into the computer and test again until no play is detected.

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8

Activate the Jukebox

This section describes how to activate your jukebox after you have completed installation of the OS2 Upgrade Kit.

Topics

8.1 Powering on the Jukebox
8.2 Configuring the Jukebox
- 8.2.1 Calibrating the Touchscreen
- 8.2.2 Selecting Configuration Settings
- 8.2.3 Selecting Languages
- 8.2.4 Choosing Jukebox Settings
- 8.2.5 Choosing Calling Window and Connection Type
- 8.2.6 Verifying the Configuration

8.3 Updating Software
8.4 Dealing with Installation Errors
- 8.4.1 Corruption in the ID Chip or Hard Drive
- 8.4.2 Serious System Error

8.5 Viewing OS2 Interface on Older Screens

8.1 Powering on the Jukebox

IMPORTANT: During these procedures, there can be periods when the jukebox appears to not be responding. Booting the system with the new hard drive can take up to 10 minutes, and the screen can be blank for up to 90 seconds during the initialization procedure.
Do not power down or attempt to reboot the jukebox during this procedure, or you risk corrupting the hard drive and rendering it unusable.

1. Power on the computer.
2. Power on the jukebox. The OpenStage 2 (OS2) splash screen appears showing that the jukebox is starting the initialization process.

8.2 Configuring the Jukebox

After the jukebox is initialized, the Calibration screen appears.

NOTE	If there is a corruption in the jukebox's ID chip or other serious error, the Calibration screen does not appear and an error message appears instead. For details, see section 8.4.2 Serious System Error.

Configuring the jukebox involves the following steps:

- 8.2.1 Calibrating the Touchscreen
- 8.2.2 Selecting Configuration Settings
- 8.2.3 Selecting Languages
- 8.2.4 Choosing Jukebox Settings
- 8.2.5 Choosing Calling Window and Connection Type

8.2.1 Calibrating the Touchscreen

1. Touch the center of the target that appears on the upper-left of the screen.
2. Touch the center of the target that appears on the lower-right of the screen.
3. Touch the center of the target that appears on the lower-left of the screen.

The Settings screen appears.

8.2.2 Selecting Configuration Settings

On the *Settings* screen, you select the source for settings. Settings include mixer levels, credit rules, the remote ID, and the other configurable options available from the Operator interface or from the TouchTunes Tempo site (https://tempo.touchtunes.com).

8.2.3 Selecting Languages

From the Languages screen, select a primary (default) language and an optional second language for the customer interface.

OS2 provides full user interface support in English, French and Spanish. Patrons can change the language on the interface during their session. The UI resets to the default language when a new session starts.

After the initial setup, you can change the languages at any time. To change the language options, in the Operator interface, select a default language from **Software** > **Languages** and reboot the jukebox.

NOTE	Language options apply only to the user interface. English is used for the Operator interface menus.

8.2.4 Choosing Jukebox Settings

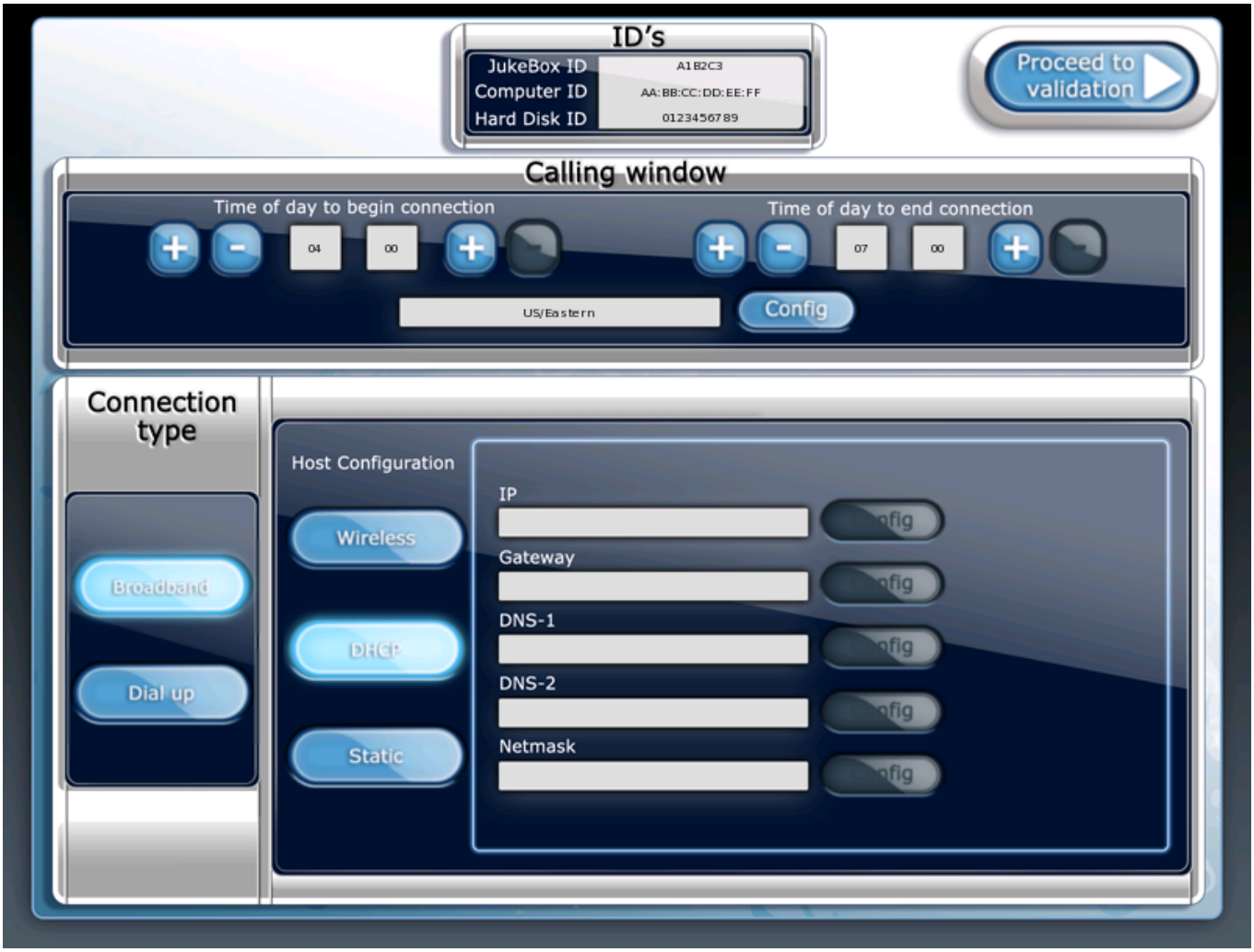
1. You will be presented with three large buttons (one of which is likely to be grayed-out). In order to ensure that all your settings and music selections carry over to this new hard drive, you **must** select the third option, which reads: “Download the settings from the TouchTunes server. (recommended if the hard-drive has been replaced)”.

Reconfigure the settings from the default values	Resets the setting values to the factory defaults. If you are installing the software on a jukebox with a new ID chip and hard drive, this is the only option available.
Keep all settings from the currently installed hard drive	Preserves the settings from the hard drive. Use this option if you replaced the ID chip, or if you are swapping in a hard drive onto which software has been previously installed. In both of these cases the jukebox detects a hardware change and can retrieve the settings from the hard drive. This option is not available if you have installed a new hard drive in the jukebox.
Download the settings from the TouchTunes server	Retrieves the settings from the TouchTunes server. Use this option on a jukebox where the software has been previously installed, where the ID chip stays in place, but a new hard drive is swapped in. In this case, the jukebox retrieves the settings for the jukebox corresponding to the identification number in the ID chip This option is not available if a new ID chip has been installed on the jukebox.

2. Optional: Return to the Settings screen.
   If you chose the “Keep all settings from the currently installed hard drive” or the “Download the settings from the TouchTunes server” options in the Settings screen, the **BACK** button is available in the C screen that appears. You can touch the **BACK** button to return to the Settings screen. You can do this, for example, if you decide to reset the settings to the factory defaults instead of keeping the hard drive settings.

8.2.5 Choosing Calling Window and Connection Type

After you choose the jukebox settings, the *Calling window and Connection type* screen appears. From here you select the nightly time range during which the jukebox communicates with the TouchTunes server and the type of connection the jukebox uses.



Calling window and Connection type screen

Use the plus (+) and minus (-) buttons to set the starting and ending times for when the jukebox communicates with the TouchTunes server.

Time of day to begin connection	Set this to one half hour after the last person leaves and locks the doors. The half hour gives you a buffer.
Time of day to end connection	Set this to one half hour before the earliest person arrives and enters the location.
Config	If you want to specify the location's time zone, click this button to display the Time zone selection window. Use the scrolling controls to move up and down through the list, touch a time zone to select it, and then press **APPLY**.

With the Connection type controls, you choose the type of network connection for the jukebox. Depending on your selection, different settings appear in the lower area of the screen, enabling you to set the connection parameters.

To choose a dynamic (DHCP) broadband connection:

1. Select **DHCP** to obtain an IP address automatically from the ISP or the location's router.
2. Touch **Proceed to validation** at the upper right-hand area of the screen.

To choose a static broadband connection:

1. Select **Static** to assign a static IP address, and then enter the configuration parameters for the ISP. The screen refreshes, with all Config buttons enabled so that you can enter the required information.
2. Select the **Config** button associated with the **IP** field.
3. Using the keypad that appears, type in the static IP address supplied by the ISP.

NOTE	The pound (**#**), asterisk (*****), and minus (**-**) keys are used for entering dial-up information only, and are not used when entering data for a broadband connection.

   - Use the period (**.**) key to delimit the individual fields of the IP address.
   - If you make a mistake, use the **Del** key to erase the input, and then re-enter the correct information.
   - Use the **Clear** key to erase the entire contents of the IP address field.
   - Use the **Cancel** key to cancel the operation and return to the *Calling window and Connection type* screen.
4. When you are finished entering the IP address, press **Apply**.
5. Enter the **Gateway**, **DNS-1**, **DNS-2**, and **Netmask** information supplied by the ISP by using the associated Config buttons and numeric keypad windows.
6. After you enter information in all the required fields, touch **Proceed to validation** at the upper right-hand area of the *Calling window and Connection type* screen.

8.2.6 Verifying the Configuration

1. Watch the progress on the *Communication* screen.
   The *Communication* screen shows the progress of the jukebox as it communicates with the TouchTunes server. The network status LEDs display each communication step, with corresponding information in the Activity messages.
2. Check the status of the Network status LEDs.

LED	Function
Local Ethernet	Indicates whether an Ethernet cable is properly connected between the router/modem and the jukebox and if the jukebox is receiving a signal from it.
Host Resolving	Indicates whether the jukebox is connected to the Internet.
Logged In	Indicates whether the jukebox is logged into the TouchTunes server. The jukebox must be able to log into the TouchTunes server to receive activation information and perform transactions such as returning daily sales information.
Music Access	Indicates whether the jukebox can access music from the TouchTunes server. The jukebox must have music access to download new songs.
Data Access	Indicates whether the jukebox can communicate with the TouchTunes server to receive updates from the TouchTunes Tempo site (https://tempo.touchtunes.com). The jukebox must have data access to receive any new settings you may have made to it through the TouchTunes Tempo site.

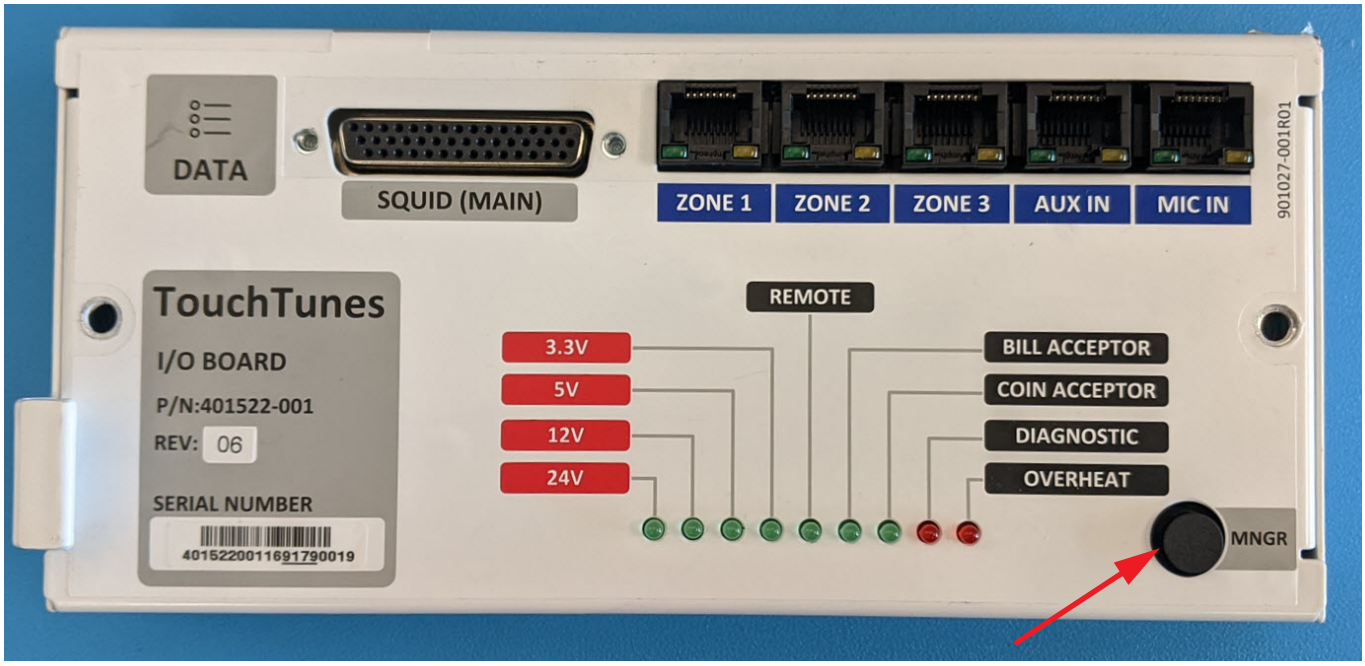
   For installation and activation, the jukebox needs the Logged In, Music Access, and Data Access LED indicators to be green. There can be cases where one of the access types is offline. After activation, the jukebox functions if one of these is offline, but there can be temporary reduced functionality. For example, if there is maintenance being performed to the TouchTunes Tempo site on the TouchTunes server, data access can be offline. In this case, the jukebox can still receive new music, but any settings you make for it through the TouchTunes Tempo site are not registered on the jukebox until data access is restored.
3. Check the information in the Activity messages.

After the jukebox is fully initialized, the Attract screen of the customer interface appears.

8.3 Updating Software

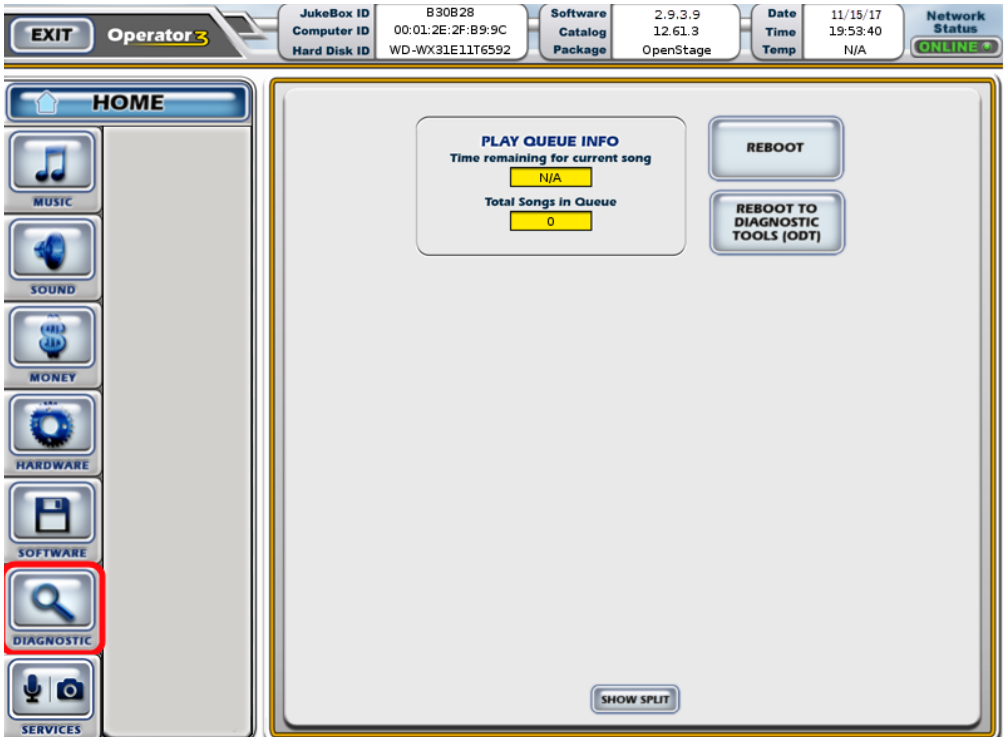
After you activate the jukebox, TouchTunes recommends that you make sure that the jukebox has the most up-to-date software.

1. Locate the Manager (**MNGR**) button on the I/O Board.



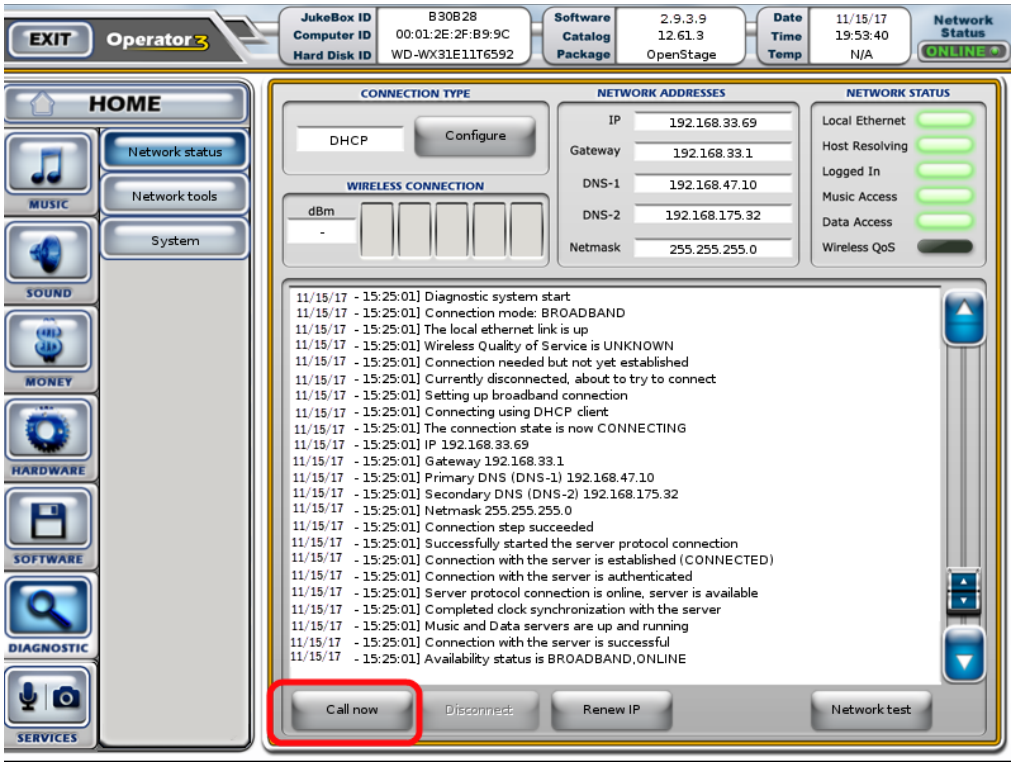
Manager button on I/O Board

2. Press and release the **MNGR** button. The Operator interface main menu appears.



Operator interface main menu

3. On the main menu, press the **DIAGNOSTIC** button.



Diagnostic menu - Network status screen

4. Touch the **Call now** button at the bottom of the menu. The jukebox communicates with the TouchTunes server and downloads the most recent software build.

8.4 Dealing with Installation Errors

During installation, errors can occur if there is damage to the jukebox hardware or corruption to its software. This is rare under normal circumstances.

8.4.1 Corruption in the ID Chip or Hard Drive

Corruption in the ID chip or hard drive can result in the jukebox being unable to play songs on the hard drive. In this case, the jukebox must download information from the TouchTunes server to fix the problem. When the jukebox is started, the Communication screen appears showing it is downloading the required file, and then boots into the Customer interface.

8.4.2 Serious System Error

Under serious conditions such as major system problems with hardware or software, an error screen appears when the jukebox initializes saying that you should contact TouchTunes, as no other action can be taken. See section 1.4 Contacting TouchTunes Technical Support.

8.5 Viewing OS2 Interface on Older Screens

The OS2 16:9 interface is down-sized and centered to fit on 4:3 legacy screens. Therefore, viewing the OS2 interface on older screens causes a letterbox effect (whereby black bars appear at the top and bottom of the screen as shown below). This is **expected behavior** to maintain UI aspect ratio and should not be interpreted as a defect. Older screens are 15, 17, and 19 inches with a 4:3 aspect ratio.

Example of letterbox effect on older monitor model

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